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证 明

本证明之附件是向本局提交的下列专利申请副本

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申 请 类 别： 发明专利

发明创造名称： 对虾白斑杆状病毒基因组 D N A 序列及 c D N A 序列

申 请 人： 国家海洋局第三海洋研究所；上海基康生物技术有限公司
； 北京诺赛基因组研究中心有限公司

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中华人民共和国
国家知识产权局局长

姜颖

2000 年 9 月 27 日

权利要求书

1. 一种对虾白斑杆状病毒基因组DNA全部序列, 共305,108 bp; 白斑杆状病毒的37个cDNA序列。
2. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于涵盖该病毒复制、增殖、感染所需的全部调控基因、结构蛋白基因和功能蛋白基因; 调控基因包含顺式元件和反式因子基因; 结构蛋白基因包括病毒外膜蛋白基因(含与宿主细胞相作用的各类蛋白基因)、核衣壳蛋白基因和非特异性DNA结合蛋白基因等; 功能蛋白基因包括各种酶基因, 以及修饰宿主功能的各种蛋白质基因。
3. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于白斑杆状病毒cDNA序列包括各种调控蛋白cDNA、结构蛋白cDNA和各种功能蛋白及其他多肽类的cDNA; 全部阅读框包括前导肽、信号肽等。
4. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于WSBV基因组 全序列:

WSBV总碱基对数: 305108 bp

碱基对组成: 92043A; 62482C; 62635G; 87948T

碱基百分比: 30% A; 20% C; 21% G; 29% T

环状双链DNA 分子量(kDa): 188071.6

1	GGATCCAGAC	ATCACCCCAA	CAATCGCAGA	CCCGATTACA	GTAGCAGAAG	TTGGAAACCC
61	TGTCGTGAGG	ATAAAACTC	CTTCATGTGA	TGAGTTGAAT	AAATTCATGA	GATTCTCTAC
121	TAATTTCTCA	TTTTTAAAAT	ACGTCAAACG	GTTTATGGCG	CAGAGAGCTT	CATCTAATAG
181	TAGGAATGAT	ATGTCCGCTT	TCTTATTAGA	TTTGATTTTT	GAAAAATTGA	TAGAGTTTTT
241	ATTATCAACA	GGATGGAATA	GAGAAGCTCT	GGGAGGAACT	ACTGGGGCTA	TTCTTATGAT
301	CAGGACGGCA	ACTTGTCGTC	TAGCGCAATC	TTATTACCCC	CTCCCTGAAA	CCGTTGGTAT
361	GGACTTTTTG	CAAACACCTG	GGTTTGACTA	CAATAAATCT	TTCCCTAACA	ATGAAAGGTA
421	TATATATGAA	TTTCAAGCTA	CAATGTAAAT	AATTGGTTAA	TAAAAATAAG	GTATATTTTT
481	AAAAATGTG	TTTATTTTTT	CCCAACCTTA	AACAGATCAT	TGCCAGGAGA	AAATCGCATA
541	CTTAACAGAT	AATGCCTATT	TGTATCATCG	ATGTCTTCGT	CAAACGTTGC	TCCAAACACA
601	AGTGTGTTGA	TCCTATTTTT	CTTCAAAACT	GTTGGTTTGA	AATATAATAC	AAATTGTGTA
661	GCTGAAAATT	CCCTTCCTGT	AGCATTTAGA	CCTGGAGACA	GTGAAACAGA	GTCCACTGTT
721	ATATCCCTCT	TTGTATTATT	GTATACTCTT	GCATACAATT	CTAATTCCTT	AGATTCCGGCT
781	TTGTTTACAT	TTAGTGTGTG	GTCTCCGTCT	CCAAGTAAAG	ATGTGAGGAT	TATGTCTCCT
841	TTCTTTTTTA	CCAGTTCAGA	ATCGGACGTT	CCTTGGCCAG	CTACATATAC	CTTTCCATAG
901	TTCTTGTTTT	GTAATGTGCC	GTTTACAAAG	TAAAGTGGT	TTCTCTAGC	AACACCGTTA
961	ATGGTCAAGT	TTATTATTTT	AGATTCAACA	GGGTAGGCGT	CTTTATCCTT	CTTGTCCAAT
1021	TTCTTGTTAA	GTTCTATGTT	GGTTACAAC	ATAGATATAA	CCACGAGTAT	CAATGTCAAA
1081	CCCGCCAGTA	TAGCGGCGTA	AACCCCCAC	ATGTGCATTT	TGAAGAAAGT	TGTACAAAGG
1141	TCATGAGAGA	AAAAACAGA	TATTAAAGTT	TGTTATATTT	TATTTAGTCG	TAGAAATCAC
1201	CACAGAGATA	TATTGTGAGC	AGCAACTGCC	TTTTCAGCAT	ACTCGAAAGA	AGAATAGTTG
1261	CGATCCTTTG	AAGCCGGCAT	CTTGAAATGA	TGTGCAGTAT	TATTTCTGCT	AGTTTGTGTTG
1321	AAGTACTGGA	TAGCCTTTAC	TGAGTTGAAA	GTTTCACGGG	AACAGCTTGA	ACAGTTGATG
1381	GAGGAAGAAG	TTCGCCTGCA	CTGGCAATTC	ACAAAGGAGT	GCTGATTATT	GTTGTTATGA
1441	TGGTACATTT	TGAAGGTGAG	AGCACGTCTT	TCTTCAACCA	AAGGTGTTTG	TCTAATGTGG
1501	CTCAGGTACA	TCCACGCTCA	CCTTTTATAC	CAACGTCTTA	CAGTTCCTTC	AGATCTTCCG
1561	TCATGGCTTT	AATCTTGTTG	GTTATCCCTC	GATCTACGAA	GAATCTAATA	TCTCCCTCAG
1621	ATCTGTTCAA	AACTTTCAC	GACTCCATTG	GGTCCAGAGT	ATAATCTGAC	CTTTCTATGT

1681	TTTTGACAAC	TACAGGATCT	GGTTGAATAT	ATGCAGATGA	TGCATCAAAA	TCTACTTCTT
1741	CGCCGCTCAT	GCCTGTTTCT	AGTCTTGAAA	GGAGTGTGTC	CAAATCTTCC	TCTTCTTCGT
1801	CTTCTTCCAT	TTCTTCTCCA	CTATCTAAAA	ATTCGTCTAT	ATCATTATCA	TCAAAGTCTA
1861	TGTCTATATC	ATCATCATCA	TCTTCCCCAA	GAGATGAAGA	AGGAGATGGG	GTTCTGTGCG
1921	GGGGAGGTGG	AGGAGTAGGA	GTAGGAGTAG	GTGGAGGAGT	AGGAGTAGGA	GTAGGAGGGG
1981	GTGGAGGTAA	CAAACCTTCT	CCAGGCACAG	TTCTGTTCCT	TCCACCTCCT	GTATTGGACC
2041	CAGTATTTAC	ACTCGGTTGT	TCAAATTCAA	AAACTTCCTC	CTCTTCTTTT	CCGTCTTCTA
2101	CAGCACCTTC	CTCGTCTCTT	CCGATCGGCC	TATTTTCAGG	TTCCCTTCGC	CCTAATACAG
2161	CTCCTTCGGT	GTCATCTTCT	TTTTCTTCTT	CTTTATCTTT	CTTTGTTTTT	TTATTGGATG
2221	TTGTAGTAGT	TTTATTTGGT	CGTGACATGA	AAATCACACC	AACCACCACA	CCCACAAAAC
2281	ACACAAAAAG	TATGAGAGAT	AATAAAAGGA	ACATCATTAT	TATCCTTATT	TTTTTACATT
2341	CAATTATGGC	ACCAGAAAAA	TAAAATGATT	TGTACAAAAC	CGAGTTACCC	CTCCACACGC
2401	CTGACCTCTG	CCGCGAATTC	TTCATACCCT	TCCATATTCT	TTGCTGCAAA	GGTCACGTCA
2461	TGTTGATGAG	CTACCATTTC	ATATCGCATA	TCTCGCCAAA	AAGATCCATC	CGCAACAGCG
2521	GCCGTGCATT	CTTCTTCAAT	GGCAGAAGTC	ATGTCAGCTG	TCATTTTTTT	AATAAGATCA
2581	CGTAGTATTT	CCTCCCTATA	CAAACTGATA	ACCTTCTGCC	TAAAGACAGG	CCTCTCTGCT
2641	AAAAGAGAAG	GATTTTCTGT	AAGCTGGTCC	ATGGTGTAAT	AAAGTGTTCA	TTTATCTAAC
2701	TTTTAAACC	CAAACCTTTC	TAAAATATCT	ACAGATTCCA	GGTACTCTGC	CGCCATTGTT
2761	GTAATCATTG	TATTTGCCTT	GTCTATCACT	GCTTGTCTTT	TATCTTCCAC	ATCTCCCACC
2821	TCGTCTTCGT	GTTTTTTCCT	TTCTTCTTCT	AGAAGCCGTC	TAAAGACAGC	TTCTCTAATT
2881	GAAGGTATTA	GCCCCCTAAC	TACCTGAGAA	GCTTCTCTGT	TTACATCATT	CACAAATTCG
2941	GGCGATTGTA	GTACGAGCGT	GATCGCGCTC	TTGTAGATGT	CTTCCAAAT	GTCCATTTTT
3001	GTTGTTTAGA	CCTAGATAGA	GAGTGGGAGA	CGCTATTAAT	TTTTTTGTTC	ATGTGGCTCA
3061	TGACCTCATG	TCCGATATAT	GTATTGGTTG	TAAGTCTTTC	CTGTACGACT	AGGCGCGTAG
3121	AAGGGGTAAA	AACAAAACAC	ACCATGGTGC	TAAGTCTTTC	CTGTACGACT	AGGCGCGTAG
3181	CGTCTAGCAA	GGGGAATTTT	TCTAAGGAAG	ATGCGGTGTT	GGGGAACAG	TTCCCCATTT
3241	TAAAGAAATC	AAACAACCTG	TCAATTGCAA	GACCTCCCTC	AATAGAATCT	TTTTCTGCAT
3301	CAGTGGAAAA	AATATTCAGG	GAATGGAACG	AAAGTGGGGG	AGAAAAAATT	TTCGACATAT
3361	TTCAGAATGA	AGAAGAATGG	ATGGATATCA	TATCCTTAGT	GGAAAGTGTA	TATGAACCTG
3421	TATTTTCTAA	ATCACTTAAA	CCTGATAAAT	TGGCAGATAA	AACATGTCTA	ACCGCGGCTG
3481	CCTTTGCAGC	ACTAGCTTCT	GCCGTGGATG	AAAAATTGAC	AATCTTATCA	GGTAGTGATG
3541	GGAGTGTGCT	TCAACGTACA	ACAAAGGTTA	TGAAAAAGGA	CCCCAAAAAA	ATAGCAGAA
3601	CTCTTTTAAA	TAATGAAAAA	TGGACATCTA	TTTTATTGGA	CAGGTTAAAA	ACAGCCAAGA
3661	AACTTCTAAG	CAGACGAGGT	GCACTGAAAA	GCGCCGAAAG	AGTAGAAGTA	CTTCATCGGT
3721	TGAATAAACT	CAAGGAGGCT	CCTCTTCCCC	ACCATCCGAG	CCTATTGAT	AATTTTAGTG
3781	GAGGAAAAAC	ATCAGCAGTA	TCTGCTGGAA	CAGTCATCGC	ATCAGATATG	CATTTCAAAT
3841	TGGTTTAAAC	TATTTTAAAG	GTCTCCTTTA	GAAAATGGGG	TCCCTGTGGA	GATAAACTG
3901	AAAGCGGGGA	AGAAGAAGAT	GAGGAAGAAG	AAAGAAGAAG	AAAGAACAAT	TCCATATCAA
3961	GATTCGTGCT	TCAATTTATG	AACGGACACA	ACGGGCAACA	TTATCATAGG	CCCGAAAGTG
4021	CTTCTGTTTA	CTTTTGTGAT	TATTATGACT	ATTTGGCCTA	CAGGAATCTC	CCTAATGAGT
4081	ACAAATTATC	GTCAATGCAT	CCTGGCACAT	TCAATATGGA	GGATTTACCT	TTCCGCCCTT
4141	TCGCAGTACC	TTCAACTTAT	AAGACAGAAT	TAGAGTACAA	AAGGTTTGTG	CAATCAACAA
4201	ATCTTCCCCA	GCTAAGTTTC	GACTATGGGG	AGTTTTTATG	TTACTGTATC	TTCGGAGCAG
4261	ATTGGTACAA	ACACCTGGGG	GATGTGGTAG	ATTCTCTAGA	AAATAGTTCC	ATGATATCAT
4321	TTGATTCTCA	GACATTGAGT	GGTGTGTATA	AGAACACTGC	TAATTACAAA	AGGTTGGGGA
4381	AGAAAAGAAA	CGGAATAGCC	GATTTGGCCG	TTAGGAGTAT	GGCAGAATTT	ATCCGCACTG
4441	AAGCGCATAA	GGCATTGACA	GCAGAAGAGA	TGGAAGAAGA	AGAAGAGGAA	GAAGAAGCGG
4501	AAGAAGAAGC	GATGGACCAG	GAGCCTGCAG	AAGTAGACTT	CCTTTTCAGT	CCTCATTTAC
4561	GCCGTAAAAT	TCGTCAAGCT	GTTTCTGTGT	TAAATAACTT	TGTGGAGAAC	GATCTTTCTA
4621	TATTGGTTTC	TAACCTCAAG	AATGTGTTAA	CCGATGATAC	TGTATCAGGA	ACAGATACGG
4681	ACAACCTTGG	TTCTAGTGGA	GAATTTGAAG	CATTATCTTC	CCATTTATTC	CTTTCAAGAA
4741	TATTGGATGA	AGTGCACATT	CTTAGGAATA	CTGATATACA	AAGAACCCTA	TTTTCAACGC
4801	ACGTGTCTCT	GTCGGATAAA	TCTCCCCCTA	GCCGTGTCCG	TGGAAGCAAT	GTCAACTTTA
4861	ATAATAACGC	TGGGAACATT	TCTTCCCTGC	AAACGTATGG	CGGTATAGAA	GAGTTGCTTG
4921	AAAATGTACT	AGTCGGTTTG	TCCGGAGGAT	TTGAAGATAC	CGACATGTAT	TCCGGAGAGG
4981	ATGTTGTTGT	CGTATGGGAT	GGTTGTGATG	GAGGAAAAGT	GCTAAGTGTC	ACCTTCAATT
5041	GTGGTGATAA	TTTTATCCAG	CTCCATGAAA	AAACAGCAGA	AACTTTTAAG	GATGATACGG
5101	ATTTAGTTGA	ACGAATAAGA	GATGTGCTTC	AGACTGCAAG	TAAGACCGGA	AACCTTAACA
5161	AAAAAGCATA	TTCAAGGAAG	AACATCTACG	CTGTTTTCGG	TGAAAATGGC	ATTGAGCGCC
5221	CCGGGGACGA	TTTTACAGAA	AAGGGGATTG	CTCTCAAGGA	TAAAACAAAT	CAACCCCTTC
5281	CCCCTGCAAG	AAGTGCCAAG	ATAACGGTTG	AAGGAGTCAA	GGGATTTTTT	AGCGGTTTTT

5341	GTGACATTTT	GGAGACGAGG	GCGCTCACCA	CATATAGTGC	AGAAACCTTC	AGAGATTTAG
5401	GCCAAGGCAT	AGTAAAAGAG	ACCGAAGGAC	TGACAGCTGC	AACAGTGGCA	GAAACATCCT
5461	TCTCTGAAGG	TTTAGCTGAA	AGTTTAAAGG	CTGATGCGAA	TCTAGGTCTA	GAATTTTCAG
5521	AGGACGCCAA	AACGGTTGTA	TTCAAAAATG	ACACCTCTCG	TTCTTTATTG	GAAGAAACTA
5581	GGGCATTAAG	AGCAAACAAT	ACTTCTTTTT	CGTCGTTTGC	AAGGGACATG	GGCGTCCAAG
5641	TTAGTGCCGA	TTTAGATGCT	GAATTTGCTG	CAGAGATGAG	AGAAACATAC	CCCGATGCAG
5701	CCCTTGAAAC	AAACTTGAAA	GATCTCGACA	AATTCGAAGA	GACTATACCA	GAAAGTCAAG
5761	TGAAGAAACT	AAAGAAAATA	GACAGTTATT	TGACAGAGAA	TCCAGAAAGG	GCTGGCAAAG
5821	AAATTAACGA	CACTGAACTG	TCAAAGGCTA	CAGATTCAGT	ATTGGGGAAG	AAACTAGGCA
5881	ATGCAGTTAC	AGTGTTGATG	AACAACCTTG	GAAAGGTTAC	AATTGTAGTA	GGGGCTTCTG
5941	TGGTGGCCGG	GTTTTTAGGT	CCAGCCGCTG	TCGCCCTGGT	GCATGCGTCC	AGAGGGGCAC
6001	ATCTCAACGT	CGTGGACCAC	ACCAGCCCTA	AAGGTGTCAT	CAGTTATAAA	ATTGTGGACT
6061	TTTCTTGTC	AGATAGAAAC	ACCGGATGGG	CTAAGCCAAC	CAAGCACCCG	FTCAGGGAAG
6121	AAATGACCA	TGTTATCGCA	CTAGATGCAT	CATTCTTAAC	TGAAAATGGA	GCATATGTAT
6181	TCCCTGAAAG	CGGAGGACCC	AAATCGAAAT	ATAAGGCCTA	CGCACCACAT	TGTGGAACAA
6241	AAGATGCTGC	TCAAGGAGAA	TGTGGATCTT	GGGCAACATT	CGACGACCCG	CATTCTGTAT
6301	TGCCTTGGGT	GGCAAGCATG	AAAGATTTGC	CTAAAGGACA	ATCCCTCTCC	TGCGATAAAG
6361	GGATGTCCAC	TTTAAAGGCA	GTTTCTTCCG	TTCTTTTGTG	CATAGGAAAG	GATGTTGCAG
6421	AGGCTATTTT	TGAGGTTGCA	GAGGACGCCG	TGGTGGGGTT	GGCGAGCAAG	GCAATTTTCAG
6481	CTGTAATAAA	TAACCCCTTG	TTCAATATTT	GAGTGCCTCT	TGGATTTGGT	ATAGCTGCTA
6541	CACGCCTCAA	TCCATCCAAC	TGGAAAACGT	GCCTCATTGT	ATTTTCAATA	CTACTAGTGG
6601	TCATAGTAT	AGTTCGCTTC	TTTGCAGGGT	CGGGCCCGCT	AACCCTGAAT	TGGTTTGGTG
6661	CAAAGAATTC	AGCTAAAAGG	AAACAGACTG	AACAATTCTG	AGACGGGGGA	GGAATTCGTT
6721	CAAAAATAGT	ATTGGCAGAA	AAGGACAACG	CCAATAGTAA	ACTTCAATCG	AGGAGGAATG
6781	AAACTGGGCC	CATGAGATTA	GAGGAGCTTC	CTGGGCATGA	AGATTTGCGC	CCAGTTTTCT
6841	TCCCTGCCAC	AACAAATTAT	TCCAAATCTG	CCAAGATTCT	GGGCTACAAA	TCTAAACCCT
6901	TCAACGACTT	TTATACAAAA	ATAATAAACA	CAGACATCAT	AAAAATGGAT	AGGTAAAATA
6961	ACACATTAAT	TGTATATTTT	ATATATTTTT	ATTTTAGTAA	CAATAAAGAT	TATACATGTA
7021	TAAAAATTGC	ATTGTTTTAT	TCCTATACAC	CAACAATAGA	TATAGACTTA	TCACTAAGAT
7081	TATAAGTTTC	TGATGACGTT	TTTCCATCAC	CCATTCTGAT	TTTATTCTTA	TTCTTCTCCA
7141	AAACAGATTG	CATTCCGTGT	CCATCAACAT	CCGTGTTCTT	CTTGAAGATG	TGGTTTATAT
7201	ATGGCTCCGA	CATATCTTGT	ACTGTCGATT	GGATAGTTTC	AGCTAGGGAA	TGTTTTTCTG
7261	GTCCAAATTC	TCCTCTCCCA	TAACGGATGC	GACGATAAGC	TTCAGCAGAA	GCCAGCAGGC
7321	AAAAGTGGGC	CCAGCCAGCC	TCGTACAGTAC	ACATGGGGTG	CTTCAGAGTT	TTTGTTCTAT
7381	TGTGCACATC	AACATATGCC	ATAAAATCGG	AATGGGTCAA	GTGCATGTCC	TTTAATTTAC
7441	CCGTTTTTGA	CAAGTAAGTG	ACTGGCAACT	GTTTGGCAGT	AAATTGTTCA	TTGATATGAG
7501	AAGTGGAGTA	TTTTTCTTGT	TTAGAAGCAT	GTCGTATATA	GAGAGCGACA	GCTAAGGCAG
7561	TTATTGCTAG	AATAAAGAAA	ACACCAACAA	CCATAGGCCA	ATTCATTCTG	TTAGTATTGA
7621	TTACAATTTT	GTTCCACATG	GTCATAATTT	CTCAGAAAAG	TTCTCAACA	GGGGAATTAT
7681	AGTACGTGAT	AGAATTGCAG	TGATAGGCAC	AGGCGGATAT	TCCGACGGTC	CTCTCCGAG
7741	AATATTTTGT	CTAGATTGAA	GCATTGCAGC	AATCTCCTGT	TTAGCATGGA	CAACCTGTAT
7801	ATCATCACGA	GGCAAAAGAT	TGTCCTTTGA	TCCTTTTGTG	AAAGCTTCGA	TGTTTATAAA
7861	GGAACCTAAA	AGTTTCCACA	TTATAGCAAT	GTGATAAAAG	CTGTCCAACG	AAGCATATAC
7921	AGCAGCTGGG	AAAGTTGTCC	ATATTAATTT	CCCACCTTGT	AACGCAGAGG	CTAAATTTTC
7981	AACCCCGATC	TTGTTGCTTT	GGCAGATGTT	CGCCATCCAA	TCTAGTTTTG	TTATCGTATC
8041	TAGAACTGGG	GTATTCTTAG	CCAGTTTGAC	TGCCTCCCTT	TTCGGTTCTT	TGGGGAAGTA
8101	AACTGGCTCC	TTTTTCAGTAG	AGTTGGTTTT	TATGTTTTTT	TCTGATGCAG	ATTCTCCAAA
8161	ATATAACAGT	TGGCGAATAA	TGGAGTCAAC	TTCAATAGTA	TCACCTCTCA	CTAATCTAT
8221	GTCCCTTTTC	ATTAGTTGGC	ACACGTCTTT	ATCTAGCCTC	ATCCTGTTAG	AGTTTCCCTG
8281	TTCCGGTGCT	GGTGTGTCTG	CAGACGCAGT	TGCTATTAGT	CCATCAGATG	CGTCCAGTAT
8341	GGAATTGGGA	GGAGGAGCTG	CAACAGATAA	CATGGCAGTA	ATATCATGGA	TGATTTTGGA
8401	GTAGTCCAGT	TCTAATACAT	CAAAATCCTG	TTCTTCCCTT	TCCTCCATTT	TCTTGGTGTG
8461	CATGTTTGAG	GAGGGATGGT	TGTTGATACT	ACCCGAGCTC	ATGCCGTACA	CCGAATGACG
8521	AGAGGAGGTA	GGAGCAGGCC	CTTTTTATAG	CCCTAAAGGG	CCATTATCGA	CAGTACTATT
8581	ATAGAAGTTA	TTTTTATCCC	TGATATTATA	CAAGCAGAGA	AAAATTTTCAG	TCTACTTGCA
8641	GGAGACATCT	TTTAAATAAA	TTTAGGGAGT	CTTCTCCAAG	TTTTCTTCTT	ATTGGTTTTT
8701	TGTTTCTTGT	CTGTTGGTTT	TTTGAGTCTT	TTGTTGTTTA	GCTTATGTAT	TTGGGGTTGC
8761	CGATTACGGT	GCCTCTTCTT	CCTTTTATTC	CTGTCAGCAA	GTAAATATC	CTTTTCGTAC
8821	TTGATAAATC	TATCAACGTA	CTTTTTTATT	AGCCTGTTTC	TGGTCGTGGA	ATTCCTGTAA
8881	GAAGATCGTA	GAAAGTTTGC	ATCAGCAGAT	GTGGATTCTG	TATCTGAATC	TTCTTCCTCC
8941	TCCTCTCCAA	GAAGAGAATC	GACGTTAGTG	TCTGATTCAG	AGTCATATTC	TTCTTCTTCT

9001	TCTTCTTCCT	CATCGCTTGA	AGGGATGGCC	GAAGACGTGG	GAGAAGAAGA	GGAGGATGAG
9061	GAAGAAGATG	TAGAAGTAGA	AGCCATTTCT	TTGTTTGTG	TTGTTACCTG	CCCATGTTCC
9121	TCCTCGACAT	CATCTTCTTC	TTCAATCTTA	TTCAAGTGAC	GGTTCAATTG	CTGCTGATAA
9181	TGCCTTGTGT	TTGTTACAGT	GCTAGACCAT	AAAGCCCTCC	TGGAAGCAGC	CGATGCTCCA
9241	GGGTCCATTT	CTGATCGCGT	ACATCTAACC	TTAGCAATAA	CCAGAAATAC	GTGCTTTTTT
9301	TTTACTTTCA	GCCAGCCGTG	TTAGTCATCT	ACGGAATGGT	GTCTTTGTCT	TTAGATGAGG
9361	AGTCGTACAG	GCAAAATTTG	GGTAAACCTT	CAAACCTCGC	TGTGCAGTTA	TCAAAGCATA
9421	TTTGTATCAA	AGAACCCTTC	GCACCTATTA	AATTTCCAAC	CATAAAAGAG	TCTATGTGTT
9481	CATTAACAAA	AACACTATTT	TCTTTAGTGA	GTGTTAGTTT	CTTCTATTG	CACAGTATTA
9541	TGTCCACATC	GTGCCCATT	TCTTTATTTT	TATCATTGAT	GACAGAAATG	TCGTAAGCAC
9601	TTTCTCCTTC	TTCTTCCCCC	CACTCCCTTT	CTGCTTGTTT	CTCCTCCTCG	TCTTCAAATT
9661	CTTCGTCTGC	GTCTTCTTCT	TCTTCTCTCC	CGCCAAACCT	CTCCCTCGTT	TCTTCTCTCT
9721	CGTCATTTAT	TATATGTCTC	CTAAATTTCT	TGTCCAATAA	TTTTGTAAATG	AAAACACACT
9781	CTGGCTTCTT	CCTGACCTTT	AAGAACTTG	CATCCATCAT	GCTGTTCAAT	CTCATATCAC
9841	AAAGGCCATC	ATACCTATCA	TCTCTGGCCA	TGATCGCTTT	GACGCTCAAG	AATATATCGT
9901	ACATAATCTT	AGACTCTTTT	TTAGGTGAGA	AAAGTTGGTT	TTGGAACCTG	CTAAATTTAA
9961	TGAAACCACG	GGACAATTTT	TAGCCAAAC	CCAGAAGATG	AGAACCTCTG	TACCCTTCTC
10021	TGTGGGAATG	TGCTAGTGCA	GCATTATGTA	TAGTAAAAAG	CAAACACAGG	TTTTCTTTAG
10081	CCAAACTCTG	TATAACATTA	GTTGCCGTCA	CTACAGGTAT	GAGATTTGTC	ATATCTAATT
10141	CAGGTACATC	TAAACATTCA	CTGATAGGAA	TCACTCCCTC	TTTCTCTCCT	TGACCAACAA
10201	TTCTCACCGT	CACTAGTTGA	TGTGCATCTT	TTATGGCTCT	ATCATAATCA	TGGGGGAAGT
10261	TTGATAGAGC	TAACGTTGTA	GCATTTTCTT	CTTGCAAAGG	TAAACACCCT	TCGTCTTCAT
10321	CATTGTCCGG	AACATCTTCA	TCAAAGTCCA	TGCCGTTATT	GTTATTATAT	GCCATTATAT
10381	TAGAGAAAAC	ATCCATCTTT	CTATTCTTAG	GACCAAGAGG	GAGCATTAGA	GCAGTTAATG
10441	AAGGTGCATC	ACTTTCTATT	TTATTTGCTT	TGGAAGTAAC	TTCGTTATTT	TTCTGATTCA
10501	AAGTGTCTAT	CAGGGCAGAT	GCTGCATCAC	GCACTCGCTT	CTCGCGTGGG	AGAAGATTGT
10561	CACAATCAGA	TTTAAAGTGG	ACTAAATGCA	GACACAAATT	AGAAAAACG	AATTGAGATG
10621	CGGATTTAAC	AATGGACAAT	ATTTGATTAT	GAGGAAGTAC	AGACGTGAAA	GAAAGAGCAT
10681	GCCCAAGATC	GTCTGATGAT	GTGATTTTAT	TTTGGGCACC	TATAACTACT	AGCGCTATGT
10741	GCATCGCGAG	GACAATTACT	TCAGTGAAGA	TACCATTTTC	TAACGTCAAA	CCTTCTACGA
10801	ATGCAACCCC	TCCTCTATTT	TCACTCATCA	TCATCTTTGA	AAAATGTTCC	ATCAAGTGTA
10861	CCTTTGTCTAT	ACTGGCTGTG	ACAATCTGTA	CGATATTCCC	CATAGTCTTT	AGGACTAACC
10921	CTTGATCGAT	AAATTGTTCC	CTCATAACTG	CGGCAGCAAT	ATCTATGGAA	TTATTACTGT
10981	ATCTATCGGC	ATATGTTCCCT	GCCTTTGAAT	CTTTGATCCT	CTTATCCAAA	CTATCAAAAA
11041	ATCTTCTCTC	TGCGGGCGAG	TCTGTAGAGA	ATATGAGGAA	CTGAGGGACT	GAAAGTTGAC
11101	CGTTTCTGTG	AGTCCATCCG	ATAGTCTGTA	GGAAAGCAAT	GGCGTTATAA	GGTACATCTA
11161	AAACGCAATG	GTAACGTTTA	GCGTACATGG	AGTTATTAGA	AGAGTCATGT	AAAGAGAGAC
11221	CGGTATTGCC	TTTAGTTCCT	AGCATTATAA	CGTCGACTTC	TTTCGTGTTG	TTGAATGCAC
11281	TAATACATTT	GTTTGTGTTG	GCAGTTTATG	TTTGTGTTTT	AACCAGAAAC	AATCCCCTAT
11341	TCGTTATACG	CGAACACAAT	TTCTGTGTTG	TTATTTTCAGC	GTTACTATCC	TCCCCTATTG
11401	ATTGTGTGAT	TGAATCTATA	GGGTTGCCTG	CTAGCGCCAT	GAGCGGTTCC	GTGTCAGGGA
11461	CTGAAGGCAC	AAGCATAACG	TGAGCTGGGG	AAGTTCTTCT	ATTGGTTTTA	TTCTTTAAGG
11521	AGATTGTGAA	AGCTGAAGCC	ATCATGACTG	CACGGCACAA	AAGTCTATAG	CCTGAGAATA
11581	TTGTATTAGC	AACAGGCGAT	GAATCGAATG	TCCCCACGTC	TACGATGCCG	TATTTTGCCT
11641	CACTTTCATC	CTTGCGGATC	GTTTGTAAGA	TGCGTGTAGT	CAAATTCTTG	AGAAAAGAAT
11701	CCCCAGTTTG	CTCTAGTGAC	ATGACCATCT	TTTTTGATTG	GTTTGTGTC	CTTAAACGCT
11761	TCACTGCATC	GGTGACAGAA	GTTGCCTTGA	TATTCAATAG	TGCACCTTTA	CATGCTGCCA
11821	CAGAAGTACT	TGCTGTATTA	ATGAAGTATT	GTCTCCTCAA	CTTTTCAAAA	CACCTCGTCG
11881	CAAATACTTC	ACCCCATCCG	TCTTCTTCAT	TAGCACCGTC	GTCATAATCT	TCGTTAAAAAT
11941	CAGTTTTACC	TTTGGAAGGT	TTTTCTTTTT	TCTTGATAGC	ATCGTATAAA	TCTTGAGCAA
12001	CCATATCAAT	GCTGCTTATG	TCAACTTCCG	GAGACGTTAT	TATTCCTCCT	CCTCCATTAG
12061	AAAGCGCATC	CTTTTCTGT	GAGTAGGTTT	TTATAGCATC	TTGTACTATA	CTTCTTAGTG
12121	TTGTTTTCCC	ATCATTTGCG	ACATCCCTAT	CGCGCACAA	CACCACCTTA	AAACGCCTGT
12181	CGATATTTTC	CATTACTTCA	TATAAATCAT	CATCATTTGC	AGCACGTTTC	CTCTTCTTGG
12241	ACGGGGAATT	AATCTCTGCT	ACTAATTTTT	CAACATCTTC	CTCTTCCAAT	ATTCCTCCTT
12301	CTTGGTGTTC	TCGTATAATC	TTTGTGAAGG	CCCTTCTGAC	ATGTCCTCCT	ACTTTTTTCAG
12361	AATCGATGAG	TACTTGTCTA	GCGTTTAAAC	AGTACGAAGC	CAATTCGTCT	ATAGCGTATT
12421	TTTGAAGAGG	GGAGGCTTTA	CAATTAGTAG	TAGAGCAGTC	GACTCCAGCC	ATGCTAATAC
12481	TCCTACTAAC	CAATTGTCTT	CTATTTCTTA	AAAGTTTAAT	AACCTGTTCC	AGAAACACTG
12541	TCACGTACTC	GCTGTGCTCA	GCCATAGCAT	CTGGAGTAGC	ACTGGACACT	TCTTTGAAGG
12601	CTTGTATGCT	CGTGTAGGCT	GGCGCACTTT	TCCTTAGTAT	GTGGTCAATC	ATGTGCAAAAT

12661 CAGCATTGCT CTGGAATGGC GTAGCGCTGG CCATAACCGT GAACGTATCA TACTTTAAGA
12721 TCTCTAAGAA AATACGGAAC GCATCAGCTT GAGATAATAG TTTCAAGTAG TTGGACATTG
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12841 TCATTGCACT CTTGAACCTA TTAATAAGGT CTGACACTGA AGGGTTTGCC CTTTTTTGTA
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12961 AGTCACTAAT ATTTTGAGTC TTGTGGAAC CTGCACATAA TAATGCTGTG ACAAAGTTGT
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13201 TGAAAAATCT AATATCCACC GAGTCTTTAG CAGACGATAC AGAATTTTCC ACATCTACTG
13261 TCATGGACCC ACTTTTCCCG TCGCTCTTGA AAGACGTTGG TTTATTAGCA CAAGGCACTT
13321 GTAGTTTTCT CCATGAAAT TTAGGATCAC GAAGACCTCT AGAATTTGTA ACCACTTCTC
13381 GCATGCCCTG TTGACAGCTG TTGAAAAGAG GCTTAGAGCA CGTCAACCAT ATAAAAAAGG
13441 GGTGCCTTTT CCACACGCCA CCGTTGATGG CTAAGAGTGC CTTGTCCGAA TCTTGACCAA
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13741 GCACTGCTAG TGCCTGCACA GAATTAATGT CCATCGGCCG AGGAAGAAAT TTGGGGTAGG
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14941 ACCTGTAGAA TTGTACTCTG GAGCTGGAGT ACCTCCAGGG GGAGTTCTGA TATAAGAGGA
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15361 CGTGATGATG GGCCTTGGG CCAGTGCAAT TTTCTTGGCA GTAGTTTCGT CGTACTTGA
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16201 AACTGCTCTC GAGGTATAAC ACACAGATGT GCAAGTTTGT CCCTCTTTCA AAGGAAGTGG
16261 GTTGGAAACAG TACCCGCCAG TATTGTAGGC CAAAATATCC ACATCTTCAT CATGTCCTTC

16321	TGATGTAGAT	GGAGGAGGAG	GAGGAGCGTC	ACCACTTACG	CCTGATGCAC	TATGGTGATG
16381	GATATCATGT	ACACCAAATA	AAGAATCGTA	CAATTCAGTA	TCGTCTTTTT	CTATATTATC
16441	CTTCAAATTG	ACCATCCTTT	GTCTAAACTT	TTTCCCGGAT	ACAGCATCTA	GATATTTGTT
16501	AGATTTTTTCG	ATGGTGGCCT	CACTCAATCT	ATCTATATGG	TGTTCAGGCA	CGAGAAGAGA
16561	TGAGGATCTA	TTTGCAGCTA	AATCATGACT	TTCGAACCGA	GAATTCCTTT	CCTTCGTTTC
16621	TGACGGAACG	TTCCATTTAT	TCCCTTTAAC	AGTCAAATTC	ATCATGTCCA	GGAGAGCGGG
16681	GTGAGGTGGG	TAATTGCTTG	CATCTTCCAC	CCCGTCATGC	CTACCTCTGG	CTTCTAGGTA
16741	TTCTTCTAGT	GTCTTTTCAG	GGTTAGCTCC	TTGAACTGCT	TTCAATTTAC	TTTTTCATCCC
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16861	AGCGCAGACT	AGCGCAAAAA	TACAGCCTAA	CACGAACACG	GTCACGAATA	ACGTTATTTG
16921	CGCGGTGAAG	CGCATACTTC	GGTTGGTAGG	GTAAAGTAAC	GGATCTCTTC	GTCGTTTCATC
16981	CATCGTTCCT	GATATTACAA	TGGATATCTT	CCTAGATAAA	TCTCATACAG	GTGCCACCCCT
17041	TTTAGGGTCT	TATAAGACGC	AGACTGTGAA	AAATAATTCT	ACGTTAAAAA	AGCTTAAAT
17101	GGGCGCGCCT	ACCAACGCTG	ATTTTACACG	CACGGTATCA	GGAGTAGCTT	CTTCTCTCTA
17161	TCTTGTTAAC	CCTGGAGCTC	CTTCCGATAG	AGAAAAGTTA	GTTTTGGCCT	CTTCTTATTC
17221	TGACTCTTTT	GTGTACAACT	ACAAGGATGC	AGTGGTGACC	GCTGAGGCTC	CCAAGTGGTG
17281	TCCCTTTAAC	GAGCCAGCTC	TTCATGATCA	CATCATGAAC	AGACTTGAAA	AAGCTGGTCT
17341	AATTAACAGA	TCTCGTTTTG	TGTGTAACCC	TGTTAAATCG	GCTGGAGAAG	TATCGGATT
17401	TCGCTATTCT	GGAGGAAGTA	CTCCCCAGAA	CTTAATTTTC	CCGATTGGAG	CATCAGAGAT
17461	AAATTGGTTG	GTCATACTTA	GAAATGCTGC	TCGTTTTGGT	ACAGTGGCAG	CATCGGCCAA
17521	AGACGCCATC	GAACGCATTC	CTGATCTAAG	AGAAGGTGGT	ACAAGTAAAC	ATGTGGCAAA
17581	GAATGCAATG	AGGAGACTTC	GTGTATGGCG	AGCCTTTAAC	TGGATAGCGG	AAGCCTCCAG
17641	ATCAGCGGGC	ATGATTCGCT	ACGAACCTT	TTCCGTTGGC	TGTGCTCTAT	ACGATCACGA
17701	GGTAAGAAGA	AGGCAACTAA	AAGCAAGTTA	TGAGCGAAAT	GTACTATTTT	TTGGTGACCA
17761	TTTCTGTAAA	GAATCAACTC	TTCTGGCTGA	TATTTCAAGA	GGGGGAAGAA	GTTCTGATT
17821	CTGGACGATC	GTTGAAGCTG	TCATCCGGTA	CAAGAATAGA	CATGCTCGAA	CAATCAGTAA
17881	TGAAACTAAT	GCCATCCCTG	AAGACTCTTC	TATAAACTTG	GAGTGGGAGG	ATGTTCTAGT
17941	AAAAAACCBA	CGCGACACAA	ATCAAGGAGA	TGATTCTACG	TTAGAAAAGA	CCTTAGAAGC
18001	TGCCATCAAA	GAACATGAAA	GCATAGGAGA	AAAAAGGAAA	AAACATATCC	TAGAGTTTAT
18061	TAAACAGAGT	CTAACAGAGG	AGCAACGAGA	AATGATTTTT	AAGGGAGTTG	GAGGAAAAGG
18121	GAATTTGTCC	CCGGCCCATC	TAACAAATCT	GGCCGATGCG	ATACTGGCTA	ATAATGCCAA
18181	AGCAGGCATA	TGGGTATTAT	TGCAGAGTCT	TTTAAAGCAA	ATCAATTTCT	CTATACTCCA
18241	TTTAATAGGG	TACGAAGCTC	AACGACTTTT	AATGTTCAAG	TTGTATATGC	CTGCATTACT
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18661	ACATAGAAGA	AAAATGCAAG	AAAAGGCAGC	CAGGGAGCGA	GCAGCTGCGA	GACAGAGAAG
18721	ACTAAGAGGT	GAAGAAGAAG	AAGAAGAAGA	GGAGGAGGAG	GAAGAGGGAG	AAGAAATGGA
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18901	GGGTGAAGAT	ATGAATGGGG	AAAATAACTC	AAGAAAACGT	AAAAACACTG	GTAATACTTC
18961	CTCCACTCAA	CAACCTCCCC	AAAAGCGTCA	GCGAGGTAAA	AATGCGCCCCA	TTTCAACCAA
19021	GGGAAAAAGG	TTAAAGGAAA	GAGATAATAT	TGGAGGATTT	TTATTAGCCA	CAATTCAAAA
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19141	ATATGTTAAA	GGTGAAAAAT	GTGGAGATAA	TGGACTACCA	GAATTGTTAA	TTGAAAAGGT
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19261	CGCAAATAGG	CGATCAGAAA	CTGGCGTATA	CACCACAAAG	GCAAACCTGTA	TTTGTGATTA
19321	CTATGAAAGA	AACGTATCAA	AAGACAGTAG	TAATAATACA	CCCCATTTCAT	CTGAATGTAT
19381	TGAGCGGGCA	AGAGAAAGGG	ATGCTTCTGT	TGCGGAATCT	AACAAACGCC	CTTGTCCTGT
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19621	TCTTGGAAGA	TTTATCGTAT	TAAATAACAT	TGTAAAATTT	ATGAATATGA	CTATTGCTTG
19681	TCTAGTGGAC	GGAGATATGC	CTATGCTTCT	AGACTCAAGA	GGCAAGACAA	AAAACCTTCT
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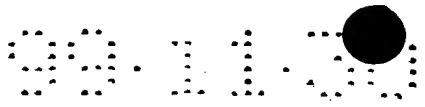
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95941	AGTTATCTCC	CAATTTCAGAT	ATTTTCGACCA	TAGACATTGC	TATACGTTTA	TGGAGATTTT
96001	GATGGCAAAC	ATTAAAATCC	AAGACAGGAA	ACAAAACACC	ACAGCCATAT	GTGAATTGAC
96061	AACCTGGAAG	GAAGGACTTT	TATGTAGAAG	AACCATACTT	GTATTTTTGG	GTTCAGAGGA
96121	AAAACGAGAA	GAGTTATTGG	GGAATCTCCC	TGAAGGTGCA	GAAATTTTCA	GGCCTAGAGA
96181	AGTTATGCAA	GTAATTGGTA	CTCTCTTGGG	CAAGAAACTA	GAAATTGACG	ACGGTATAGC
96241	TTCTGTAAAG	GCTGCCCTCT	GTGCTGGTTC	ATCATCGTTA	TACCTAATCA	TGAGCCACAT
96301	AGTGAAATG	ACCTTTTCTG	CTATCACAAA	CATGAAGGAT	ATAAACGAAG	AATATTTCTG
96361	AGACTTTATA	TTTCGTCATA	AACAATTCCT	CAACCCTGAA	TTCTTCAAGC	ACCTTATATC
96421	TTTGCTCAAG	AATTCCAGGA	AGGAACATGT	TGCCCATCTA	GTAAGACGTC	TAGAACACTT
96481	TCTCATGCTA	TGGACCTTTT	CCAAGATGAG	GTTCACAGAA	ATGGAAGAAA	ACTACTTCCC
96541	AATCTCCAGC	GATAGTGATT	ACGGCATCTG	TGAAAAATGT	GCACGAAAAA	CTCCCAATA
96601	CAAGCTCCGT	ATTTTATAGG	AACGAAAAATG	CTGCGATAGA	TGTTGCCGTC	TTTATCACCA
96661	ACAACCGCCT	CCGGAGGTGT	ATAATTGGGA	TGGAAAAATA	ACCCAACAAT	CCAAATAAGG
96721	CTACATTAAT	GCAGGCGATG	AAATTATCGG	CATGCTAAAC	TCAAATGATA	AGGGAAAAAC
96781	ATTCCCTCCT	ATACCTAAGA	TGGTTGTACG	AAGAGTGGTG	GACGGTGTCT	ACGGGCAAGG

96841 AACTATCCTG TCAAAGATTT TGAAGTTCAG GCAGGCAAAT ATCCCCACGT GTCTATTTCGT
96901 GACATGCAAT AAATGCAATA GGATTTTCAG GCTCACTATC TTAGGGCCTA CAAGAAACAT
96961 CCTTTGCCCA CCTTGCAGAA AGAAAAGTGT TGCAGTAAAT ACACAACAGA AAGGAGAAAA
97021 TAAACCTTCG TTTGTGCAAA AAGGAACAAA ACGTCTACGA GTGGATACCG GTAGCAACAA
97081 GAACACGTTA GAAAAATTCT GTTCTTGGGA AAGATTCAAT ACTGAAGTTT TGCTCCCTTG
97141 GCTTGGCTAC ACTATTGAGT CTAAGTGGCA GAACTGGGAA TCTTTTCTGG GTTATTTCGAG
97201 TACCAGATAT AAGGAACGTG GGGCCTTTGT GAACAAACAG GAAATATCTT CCATGAAAGA
97261 CTCTACATA AAAATTGAAG ACATCGACCA GTTATTGAGG AGTATCTTGC AAGACCAGAA
97321 GGGTGTATTT GAGACCGTCT GCAAAATAAA GAGCAGAGAT GGTTTGTGAA TTGGCCACAC
97381 TGATTCCGAT ACCGACTAAA AAGGCTGATT GATGGCAACC CCCCCCCTC CAGACTCAGC
97441 CGCATGAGTA TAAATATGGC CACTTCTCAC ACCACAGCAT CATTCCCTCG TCATCGGTCC
97501 TACCGTCAAC TTCCATTATT ACTCCAATAA TACCAACAAC CCCAGAAATG GAGTCAATCA
97561 AACTGTTTAC CGTTGCTGGT CTGAATATGG AGCAAGCCAA CCAAGTGGCT GAAGAAATCA
97621 AGTCAGATA TAAAACCGAG GAGGAAAAGA GGATTGCCCA GGAAGTGTTC GACAAATTCA
97681 CCAAAAAACT CATTATGCAA GTAGATACGT CTAACACTT ACTTACAAGA GAAAACCCCA
97741 ACCGTTTTGT ATCCCGCCCC ATTGTCCATG AAGATCTCTG GGAAATGTAC AAAAAAGAGG
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97861 AACTCACTCA AGATGAGAAG GATTTTCATTC TCCAGATTCT GCGGTTCTTT GCATCCTCTG
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98101 AACACTTCCC CGCCATCAAG AAGAAGGAGC AGTGGGCTAT TAATTGGATG CAAAGCAATA
98161 ACGATTTGGC GGAACATAAT GTTGCCTTTG CTGCAGTTGA AGGAATCTTC TTTAGTGGTG
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98281 ATGAGTTCAT TTCTAGGGAC GAAGTCTTC ATCGCGACTT TGCATGCATG CTGTTGAAAA
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98461 AGTTGATGAG CCAGTACATT GAATTTGTGC CAGATAAACT ATTGGTTGAA ATGGGACTAG
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98701 CTGCACCTCC TCCAGTCTCT TCCTCATCAT CCGAACAAGA AGATGTTGAA GACGGCGTCG
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100621	AACACAATTT	CTTGCAATTT	TTAATGCCTC	AGCTGATATA	CGTAGACGTA	TACTGTTTAA
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100741	ATTCTCCCTC	GCATGATCCT	CTATGACCAA	ACCAGCCTTG	GTCATTAGAA	AATGGTCTGG
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100861	TTCACAGTGC	ACAGATCTCT	TTATGAATTT	AGAGGCTAGA	GATATGAAAT	GTCTATTTAA
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101221	CTCCTTTGTC	TTTAATTCTT	CCAAGAAGTC	TTGTACATTG	TCCTCATTCG	CGAACGTTAC
101281	CTTCCCATCT	TGCCCTCGTT	TCATCACGTC	GTTGTTCTTA	AACAGGCGCG	CAGAAAGCTG
101341	CATCAGGGAC	ATTTCTTCCA	ACTTTTTTAG	GTCTTCATGG	ATGTCCTTCT	TCCTCTTCCC
101401	CGAAGAGATA	AAAGACCCTA	TAACATTCTC	AATGCAATGA	ACTGCATAC	GTCTCAATTT
101461	TCTGTTTGTC	ATCCCTGAAC	CRAAGCCTAT	TACTGGAACA	ACCATGCCGC	ACTGTGGTT
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101581	ATTAACATCG	TTCGTAAAAC	TCTGTTTATA	CTTGTGAGCA	ACCCAGTTCA	CTATAAATAA
101641	CAAGGCATAA	GAAGCAGACA	CCTTTCGTCC	CAAAAGTTTA	GAAATTTGAA	GGGAGAGCCA
101701	GTCTGCCATG	TAGCCATCTG	ATTCTGTGTT	GGCGATAGGT	GTCTCATCA	TTGTGACGGA
101761	TGCTTCTCTC	ACTCTATCTG	CTACAAATTT	CACTGCTTTA	ACAATACTTT	TTCTGCACGC
101821	ATTTTGTCTA	TTAGAGTTTA	TTCTTGCTTA	TTGGAGTTCA	CAGGGGTAAT	ATTCTTCCCC
101881	GTCATTATCT	TCATTGGAGG	ATGAATTTTT	AGTTTTGTTG	TCGTTCTTTA	TATACTGTTT
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102001	GAAACCGAGC	AGGTAAAGTT	GTACACATGA	AAAGGCACCT	CCAAAAATAT	TACCAATGAA
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102121	ATAATTCGTT	TCAACGTTAA	AGTACCTTTC	CAATCTACGA	GGCACTTTAA	TGTTTTATGTC
102181	TGGAAGGATT	TCAAAATCTT	CACTAAACAT	ACCCGACAAC	TTGTTTGATT	TTCCCAATAC
102241	AATATCTGAC	CTTATGTATT	TTTCATAAAA	GTCAAAATCC	GTCATCGTTA	AATCAGTTGG
102301	GGGCTTTTTT	GCATTTTAA	GAGTATCCGA	AAGATGCACC	AAACCAGTTC	TGTAGTTGTA
102361	GTTTGCCATT	GCTTCATCGG	GCAATAATTT	GCTCACTTCA	TTGTATGCAT	GCACAACCTT
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102481	TTCAACGTGT	CTAGATTCTA	TTGTCTTCAC	ATCGACAAGA	AAGTATCCTT	CACGTATACT
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102781	GTGCCGTATA	ACTCTGTCTA	CGAATTTCCA	TGTCAGGTTT	TCATTACGTT	ATTCTTTTAG
102841	GAGTGCCTTT	TCTGCTTCTA	TAGTTGTAGT	AGAAGTTGAA	TCCATAATGT	AGGAATGAGG
102901	GAGGTACTTT	GGCACGCACG	TGTGCACTGA	CCGAGACACA	ACGGTGTACT	GAACAAGGGT
102961	TAAAGACGTT	GGCTGTTTTA	CACCTCTCAG	AGGAATCCCT	CTACCAGAAT	AAGTCCTTTC
103021	ATTTTTTTAA	TTAACACACG	CAAACTGAC	GCTGAAATCG	TTTCGCAATA	ATGGGAGAGG
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103141	TAATTATCTC	TACTATATTT	GCCATCTACT	ACTTTTATTT	CCGTCCAAAG	GAAGGGTTAA
103201	AGAAATCGCG	AGTCAGTAAA	GACCCCTTGG	CTATACGCGT	AGATGCTAAC	CATGTCCTCT
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103321	AATTTGATCC	CAAAAATATG	AATGAAGAGG	AACGAGCAGA	ATTTTTCAAG	ATCCATTATT
103381	TTACTGGGTT	CCCTAAAGAT	GTGGAAAAGG	AACAGGTGCA	GAAGAAGAAG	GAGGAAGAAG
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107941	CTGACATTGG	GTCGACCCAG	CGGTCCACCC	TCGGAACCTG	ACATCAGGCC	GACCGAGCGG
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108061	GAGTAAACAA	CTCTAGTGGA	TTAGGGTGTT	AACAGCCTAC	CCTTTCTGGT	CGCAGCTAGA
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108181	TCTGGAGTAA	TCTGACATTG	GGTCGACCCA	GCGGTCCACC	CTCGGAACCT	GACATCAGGC
108241	CGACCCAGAG	GTCCACCCTC	TAAACTCGAG	CGACACAGAA	AAATTTTTTAA	AAAATTTTTTG
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108361	GCGCAGCTAT	ACCCAGAAAC	ATCTGTTCCA	GAACTTACT	AAAGTTAAAG	TACATTTCTG
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108481	GGAAAATGCT	ATTTAATAAA	ACAACCACCA	TTCTCCGCTC	ACTATACAGC	TGACCTTCGT
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108661	AAACGTCACG	CCGTTTCCCT	CCACGATAAC	CTCTTCAAGA	TGCTAGGATT	TGGCGACCCC
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109141	ATAATAGTGT	CTCAAAGGAT	GTAATTAATA	AATAAAACCG	TGCTGGCAA	CCCCGCCAC
109201	CACCACCATC	GAGGCGGGTA	TAAATAAGGG	GCGCTGGCAC	ATGGGTGGCA	CACTCGCATC
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122641	CAATGATAAT	CCTCATCGAC	ACATCTCTAC	AGTAAATATT	GTGCAACCAG	TTTATGGAGT
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122761	TATACGCTCA	AGAGATACTC	GAGTTGGAGG	AGAAAGAGTG	CCCGTCATGA	ACCTGTCCAA
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123181	GAGGCGTAGA	AATTATGCTC	GAGATATTGC	TGAGGAATTT	GTTAGGGTAT	GTGAAAACCTC
123241	TCTAGCTTCA	CGCGAACACC	CCCTGTTCAT	TGTACATCCC	TTTAGAGATG	GAGCAATCCC
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123481	CCGCTTGTTT	AATGAACAAT	ACAACACTAG	AATGTCCCTC	AGCACCAAAA	GATTGAGCCT
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124801	TGTAATTGTA	GGATCTACTA	TAATGCCTAG	TGTACTTTTC	TATGGCGACC	GAAAACATCT
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129661	GGCCACAGGC	ACCCATGTAT	ATTTTCAGACC	ACTTTTCCGC	ATATTTCCCT	CTATCGCTAT
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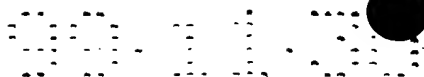
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129961	GTTTTTAAGT	ATAACGTGTC	CTTTCTCAGG	CTTAATAGAG	GATAATAATG	ATTCTATCTT
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130081	TTTATTTTCC	TTTAATTGTA	CAATGAAAAC	GCCGTCTCTA	AATTCACCTCT	TTCCGATAGT
130141	TTCAACTGCT	TCAAATGTAC	TCATTACTTC	TTCATACTTT	TCATATTGTT	TTTCTCCAAT
130201	CATTAGAAAA	GAAGAGCGTA	GCTGTAACTC	GTCTTCTTCA	GGTGTCTCAT	CCAGGAGATT
130261	TATCAGTTTT	TGTTCCCCTA	TATACTCCAT	GGTTTATTTA	GTCAGTTGAT	TTATTTTCTT
130321	CTTTGACACA	GTTTTTATGG	TACTCTGGGA	TTACTTTTACT	CAAAAATTTA	CTCACATGTT
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130441	ATGAGGTAGG	TACTGATTCC	TGATGGATAA	CGATGGCGTC	CCATGTCTAG	TGATGTGAGT
130501	CACATAATAA	AAAGGGAAAT	AAAAATAAGA	ACTAGTAACA	TATTTTTTTAT	TTTATCCCTC
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130861	ACGCGTGGGT	AGACAGAGCC	ATGCCTTCGC	ATATTGAAC	TGTAGAGAGT	GTTGAGGGAG
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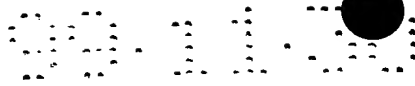
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148681	GTGTGCGAGG	TCGTTTTCTA	GGACCGTAGA	TGACCATCTG	CCTTCCTCTC	TTTTTCTGGA
148741	CAACCTTTAA	TTGCCATGGT	GTTAGTAGAG	GTAAACTCGC	CTCATAGAAT	CCGCAAACTT
148801	CCTCTAAAGG	GAACAAGTGT	TTCCCCATAG	GGGACAATTC	AAAAATATAA	TTCCAACATA
148861	TTAAGGGTGT	TGTTTTATTT	TCCTTTTCAT	CGTACTCCGT	TATTGTTTTA	CTAAAATTTG
148921	GAAGGTGATT	TTTTGATAGA	CTATCGGACA	TTATATCCGC	TGCAAGTTGA	CGTTTATGTT
148981	CAATGACATA	ATCATTCGAA	TCAAAGTTGT	CGTGTGTTGA	CACCATACCA	TTCCATTTCC
149041	ATTTGGCTAG	TTTGGAGAGG	GATTTATTGT	TGCGCAATTT	TAGACGTGCA	GAAACGTTTT
149101	GCCATATTAT	TTTAGAAAGT	ACAGGCAAAA	CAACATCCCT	CACGTCAATA	CTGTCCATTA
149161	ATATATCAGT	AGAATCATTG	AACTTATAA	CATCTCTCTG	TATATCTTCG	TTTGATGGGG
149221	CCAATCGAAC	TAGAGGAACT	AAATCCCCAG	TTATGAGATC	GGTGAATAA	AAGCTCTCGT
149281	CATCAACAAT	TTTTTTGGAG	CCTATGTACA	TCTCACACTT	ACTATAAAAG	TCATTTTTAT
149341	ACCCTGGTTT	CTTTTCCCAC	CTAGAACATA	AGAGTATTAA	AACTCTCGAC	AAATTATACA
149401	TGGCACCTAC	TCTTCCTTCC	ATATTACTGA	TAGCTCTATA	CATATTAACC	ACGTATTGTA
149461	TAGGTGCTTC	TACGTACAAA	TCTGAAAATC	CACTAGCGGC	AGTTCCTTCA	CTAAAGGCTA
149521	GAAGTCTTTC	CATAGTCTTC	TCTTCTGAAA	ACATTTGCTG	AATTATTTTA	GTGGATAGTT
149581	TGTGCCGCTT	ATTGAATTTT	GTGCCAGGGT	ACTGGGACCC	GAATTCGTTG	AAATGTTGTT
149641	GTTGTTTTTT	CCCTACTTCT	TTAGTTTCAT	GCCAGGCGGG	GTGTTCTTGA	AGAGCAGCCA
149701	CCTCCAGGAA	CAAATCACAG	ATGGCTCGTA	CTCCATCACA	TGTGCATTTT	ACAGTTTCAG
149761	GGAAATTTAA	TCCTGTTATT	TTATAAAACA	ACTCTCTGTC	TATTATTTTT	CCCATTGCTA
149821	GGCGATTATT	GACATTAAAC	CCACAACACT	CGCCTCTGAT	TCCCATTTATA	AAGGCTAAAG
149881	AATATACTAT	AATATTTCCC	GCACTTGAAC	CCACGAGTCT	AAGAGTTGTA	TATTCTCCAT
149941	CGCAGTTATA	GAGACATCTT	GCCAAATCGT	CCATTGATTT	CCTGCCCGTG	AAGCGCACAT
150001	CCATGAGTCT	TGCTCCTCCA	TATCCAATTT	CAGCGTTTAT	TGAAGTCTC	CAACCTTTAT
150061	CCTTGTTTAG	GCGCTGTATC	TTTTTTCGCT	TCTCTGCCAA	TACATTCTATA	AAAGTGTAAG
150121	ATTTAACGTC	TCTTACAGAT	TCCATAATTT	TTTCTCAAG	TGTTAGCGGC	GGCGGTGGCG
150181	GCGATCCTTC	TTTGTAGCCT	TCAAAGATAA	AAGAGTGTTA	TTCAACTTAC	AGTGTATTAT
150241	GGCCCAGCAA	TTCTTTTCTT	TCATCAACTG	CATAGTAGAA	GGTCGATCGG	AAAGAATGAC
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150361	TCCTATTATC	ATATAGTCTT	CAAACAGTGT	TTTATTAGCA	GACATGTAA	TCATTTCAT
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150541	CATTATCCGT	TGTTTCTTGG	ACGCCACACT	TTCGTAGCAT	AGCGTCGGTA	GGGGAGAGTC
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150661	GAAGAAAAAA	ATCATTCGTT	CTGTACCATG	GAGACAACATA	TGGATAATGT	CGTTCAGAAT
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150841	CTAAAATTGT	CCAATACTTT	AAAGGCAAAAT	TTTGGAAAAAT	CCATGTCGGC	TATTTTGTCT
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150961	TTAGAAGTGG	ATGGAAGTAG	TAGCAGTGAC	AGTGAAGAAG	AGGAAGAAAC	TAGTCTTTCA
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151081	AATACTATCA	AAAATTGGCT	CAATGATGCT	CAAGGTGTAT	TCCGCCAGTT	TGCAGATATC
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151441	AAGGAAGAAA	TCAAAGAACT	TTTATGTCAT	CATGTCAAAT	ATTTATTGCA	AAATCTTACA
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151561	TACTACATAC	AAACATCAGA	GATGGAAAGT	GATGAATTTA	AGTCCCTTCT	CACTGGAGTC
151621	AACATTAAAA	TATTGGAGAA	GATAATCTCG	TCCGATAATA	ATGTTGCTAC	TCCTTACAAA
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151861 ATCAACGCTC TCTTTTCCCT CGAGCGCCGA AATGTTTTCA CCGACGGCTT TTTAATGCA
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159241	GGTGTAAAC	GTACTGAAAC	ATTACATCAC	CCACAGTCGT	CCTCCTCCCT	TCTAAGAGAG
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161101	GGATGTAGCA	TGATTAGCGG	AAACTTTGAG	GATGAAGACG	GTGTAACACT	GAAATGTTTG
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162361	GAATGGCACT	TAATGTCTGT	TGGTTCTTCA	ACAGATTCTT	CCGCATGGTT	TCTGGACTTG
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190501 TGACGGCATC TTTAGATAGG TGTCCTTTGG CTAATCTTAG TCCCGAATTA AAAAATTCTG
190561 TCGTTTTATT GAACCACGTG GGTCCGAATA CGTCAGAAGA AATAACAACC TTCCTTTGTT
190621 TTTCAGTGT ATTTTGTAAG TTTGAAATGG CAGCAACTAG CCCTCCGAT ACATAATTA
190681 TTCGTTTTTC ATCGGTTTTA TTTCTGCTA CTAATGCCAG AACATAGTCC TTGTACTCTG
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190861 TAATTTCAA TATACAATGG AGTACATGGA AGAAGGAGAC ATCGCTGAAA GGCGCTCAGA
190921 AGGTGTCGAC TATATTCTGG ACGAAAACCT TGCTTGTGTA GTTAATGTGA AGAGTATCCG
190981 TAACAGGCTC GGTGCCATGG ACGCCGAGGA GGCACAGTAC GCACAGGACA TTTCCGCCCA
191041 ACTTGTCAAC CATATTATCC GTCTGGCCCA CTGCTCCGAA TCCAACAAGA TTAAGGATAC
191101 CATTGCCAGT ATTGCGGGTC TTTTCATCAA CAACATCTTT GACAACAATT CAACAAAGAA
191161 CAAACTTAAA ACGTATAATC AATTCAAGGC AGAGTCACAA AACAAGTCTA GCGTTCTCAA
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191401 CGCCTGCACC GGTCTCAAGG AAGCCATCCG CCAGGAACAA CCCATGGAAG CAATGTTGTT
191461 GTTTTTCAAA TGTATCAACC ATAATAGTT CAATTTTGA AGCGACATAA AGCGACATA
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192121	GGTTAAAGGT	AACAACAAGG	CTAGCAACGT	TACATCTGGC	CTGGATAGTA	TCAGGTCTGT
192181	TCGTCAAGCA	GAAAAATATA	TCCCGTTTGG	AATACTTGAA	AATAAAGCAG	GGTATGGTGT
192241	AATAAACATT	GCCAAGCACA	ACATCAGCCG	TCCAGCAAGA	GAACAATCCA	ACGGAAGGAA
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193141	GGATATCGGG	CCATCCAGCC	TGATCGCCTC	ATCTGAATTC	TTGAGCAACT	ACGTCAACGC
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193261	AAATATAAAT	TATATATCAT	GCAATTTTAT	TTATACCTTT	TTTTGTATGT	GATACAATAT
193321	TTTTAGTGTT	ATGACAGTGC	AACCATTATA	TTATTATCTG	TAATAGGTCT	TGGTAAATTT
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193441	TCAACACCTT	CCTCAAAGTT	ATAGAAGAAA	CTTGTTTCAT	CATTTTTTAT	AGCAATAAAC
193501	AAGTACGTTT	TTTCCTTAGC	TGTGCTTGCA	GAGCTTATCC	AATAGTCTGA	TGCCTTTTTA
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194221	GGGATTGAAA	CTTTTCCATC	TGTTATTTTA	TCCTTTATTA	ACCATACGTT	TTCTGATTTG
194281	TATGTGTCAA	ATTCTTGATC	TGCTAATTTG	GTGAAGAATT	CATCCTCAGC	TTTTTCAAGA
194341	GTTCTTGCAA	AATGCTCTCT	CGTTTGACGT	TGAAGCGCTG	TCTCATTGAT	AACATCAACT
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194521	GTTCCCTTCC	CTACGCCCGA	GATAGCAAAG	AAGAGGGCAA	TAGAAGCTCC	TATTACCAA
194581	ACAATAACCG	CAAAAACAAT	GTATATTCCT	CCATTGTTTG	AAAGTGCCAT	TTTTAAACCC
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194701	TTGATTTTCA	GGCATGTGAA	TTGTAATGAG	AGAGGCCGAA	TCCTCGGATG	GGTTGATTAT
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194941	TATTTTGAAC	GATAAACTTA	AATCAATTAA	ATCCCCCTGA	GCAGCTCCAG	GGGGAGTGAT
195001	TGATAACATG	TGTTTATCGT	TTATTGGTAC	ACTAAATGAA	GTTGAAGAGT	CGGTAAAGGC
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195121	CCGCTCCTCT	TTTAAATTTT	CAGTTATGAA	ATCTTCCCTG	GGTTCCATGA	TCCGTCTATT
195181	CACATCGTAT	ACTTTTTTCCA	TAACCACTGG	TATTCCTTTC	TCAAAAATTG	CTTCACAGAT
195241	AACAGGATTG	AAAGCGTCTT	CGTAAAGATG	TTCAAAAAGTC	ATTACATTAG	TTAAATGGCT
195301	ATTGATTTCT	TGCCTTACTT	GATCCTCTAT	ATATTTTATA	GAGGCATTTT	TGCTACCGCA
195361	ATAGGCAATT	GCACCTAAGC	GATACTTTAA	TTGGTCACTC	TTTCTTGTGA	TCCAAGAATT
195421	GTCATGGTGA	GCAGCTCCCA	ATTGAGCCTC	CACTGAAGCG	ATTTTCAGCTT	CAGTCACAGC
195481	AGGCTCATCT	CCGTTAGACG	ACATTATTTA	CTCCTCCTTA	AAAGCAGTGA	TTGCAAACAA
195541	TATATCGTCC	CTTGTATCGC	CTCTTTTTAT	ACGTTTAAACA	GCGTATGTTG	CAGATTCTCC
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204241 GACATCATT ACGTCCAAAA TACAACAATC CAACAAATCA TTTGAAGAAG CACGCACAGA
204301 GTCTGCCGCT TTTACTAAAA CAAGCCTTGC AATACGTTTC ATTACCTTCC CAACACGTTT
204361 TTCATACATA TCATTGCTTT TTTGCTATT TTTGTCGGCC AAAGAGGAAA CACTAACCAA
204421 ATTCTTAAT AGTGAAAGGG GCCTAGAAAG AAGCCTGCTT CGCCGTCCCA TTAGGACGTG
204481 AGAAAATCTA TAGGTGATAA ATTGCAACCA ATTACTAGTA TCAAAATCCAT TAAAATCAAA
204541 CGACATGAGA ATCTTTCGGG TCATTTCTTC AATGACAATA TCATTACTTG CAACTTGTCC
204601 AATAACATAT GCGGCAAAAC GGTAAGAGTG GAGAGGATCT TCTTCAATAT CGTAAATCT
204661 ACCTTCTTTT ATGCTAGCGT CGGCCTTTT GGGAGAATCT CCCTTGCGTG TACAGCTGCA
204721 CCACCTGCTA GTGATTTTAA AGCATCGAAT GAGTGGTACC ATTTTATCCA CAGATAGACG
204781 CAAAGGAGCA GTTGCAATTT CTCGCACACT TTCTCCCTGC ATCATGATAC GATACATAGC
204841 GACCATTGCT AGCACACAAG AGAGGGACAT TTCTGTCTTG AGAACCTCTT CTGTTGCAGC
204901 CATCCACTCT GCCCGACTGC GCAAAGTAGA CTTGTTTCGT GGATAATATT CGTCTTCAAC
204961 CCAAATTTGA TGCCTAACAT CATTGCTAGG GGTGGGTTT ATCTTCAATT TCTTAATTAC
205021 GTTGTTATTT GTTAGCAAGT TGCTTGAATT TATGAAATTT TCAACAGATC TAATGTCGTT
205081 GTCTTTGAGA GCAAACCTCAT AGGCCTTGGC GACCTGCGCT TTCCAGTCCT TATTGTCGTC
205141 ATTCAAAAGA CATTCCCACG TATCAGCATC CAAATTTGTG TCCAGATCTT TACCAAAAAA
205201 TGCCCTCGCG CTAACGCCCCA GAAATTCTGA TAGCTCAAAT ACGGCGCCAG ATTCGTCCAC
205261 ATTTGACACA CCTGCCTTTA AATTATGATC TGCACTACCG TCCCAATCTT TAACATAACT
205321 TCCCCAATCA ATAGGAAGGC TGTTATTAAA GCACTCCCTA ACAGTCTCTA GAATTTGCCA
205381 CAGTCTAGAA GCTGGACTAT TGGTTCCAGA ACCGTATCTT GTTATCAAAT TTGAAAAGAA
205441 CTCAGAATCA TTACTTGTTT TTCCATTCAA AGCTGTACGC ATGATACATT CTTCCATCAT
205501 TTTAAAGCAC TCGTATATGT TAAGTTTTGA AACGTTATGG TCCTTGAAAT AATTTGCTGC
205561 ATCTAAACAC ATCTGTTGAC GTTTTTCTTT AAGTTCTCTC TCAGAAAGCG ATTGATTAAA
205621 CACTTTAGTT GGTTTTAGAG GATCAACAAC TGTAGAACCC AGCACAAACAG ACTCTAAATC
205681 TTGATTGCGA CACAATGCCC AAATACCAGA AAAGAAACCA TTATTAACAC TCTTATCTGA
205741 TACACCATCA CCTCCCGATG AACATGCCAA TCTGGCTAAA CTTCTAGGTC TAAACGTGTT
205801 AATGAGTTTG TTATCTTCAC TGATCACATT TTCATAGATA CCCAAAGGTA ATGCTGAAGA
205861 TAGACATTTT CCTGCCAATT TACACTGTTT TATGGCATCC CACCTCTTAT TATCTAAAAT
205921 AGACCTAATA TTACCATTAA CTTTGTCTTT TTTCAAAAAT CCTAAAGCTG CAGTAACATC
205981 ACTAAAGTAT CTCCTTTCAC ATGCCATTGT GTTGAAACGG AGAGCTACAG TCAGATCTTT
206041 CAGATGTTTA GAACTAGGAA TTGGGAGTAG TTTTATGCAC TTTTCGTTAG ACATGGTATT
206101 GTTACTACTA AGGGGAGAAT CGCTCTTGAA GTTATTAAGA GAAGCACAAAG AACAAAAGGG
206161 AGGGATATTG TTGTTGCTGT TAGCGGTTCC GTCTTCACTA TTGACATTAG GCTTGACAAT
206221 TTCTCGTACA GGCATAGTAA AAGGCACTAC CCAATTCCTC ATTCTCAAAG ATCTTCTATT
206281 AATTTCTTTC AAAATATCAC CAGATTGAGC TGCAGAAATG TCCAATGTTA GTACATCACA
206341 CAAATTTTTC TCCATTTCTT CCACAATGAC AGTTGAAACA TACTTTTGGC GATGACATAA
206401 ACTGGATCTA AAGTTGAATG TTTTGATGAA ATTAACATCC CTAAACACAT CATCTTGATC
206461 GTTATTAATA CTACTAGCAT TGTCAGATGG TACATTTTCA TCATCACTAG AACCAAATTC
206521 GCCTAGAAAA CCATAACAAT CATCTTCATC ATCACCACCA TAATAATCAC CTGTTGCACC
206581 TCCCTTGGCA GCTCCATAAT TCTCCTCATC GTCACCTCTT TCATCACTTT CTTCATCGCT

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206641	TTCGTTACTG	GCCACATTGT	TCAGGATCTG	GCGAGCAGAA	ACGTCGTCGT	TGTCACATTT
206701	TCTTAGATAT	TCTTGTTTTT	GTTGATAGAG	TTTCTCCCTC	TTCTCCGACT	TCTTGCTGTC
206761	CAAAACAGCT	TCCTTATCAG	ACTTGACGCT	GGCAAAAAGT	CGTTGGAAAG	TCTCCATGGG
206821	GGCGCATTCA	TACATTGGTC	CAAAAGACTT	GTCAGATTCA	TCATAATCAA	ACGTTTTTAAA
206881	TGTATCGTTG	TTCAATTCTG	AGACCATTGT	GCTTTCATCA	TACTTAATTT	TGCACAATTT
206941	GCTGTTTGTC	TTGTTCTTGA	TCCTCTCCAT	GGAATTTTCG	TATGCTGCAA	CTCCCATTCT
207001	GCAGACAGAT	TGCTTTTCAA	GCACACTTTT	GGGTACATAT	ATGCTAAGTT	CTCGGTAAAT
207061	TGCGTCGCAC	ATGTGTCTAA	ACTTCTCAAA	ACCTCCTTCA	AATTCAAAAT	CTTCACGAAT
207121	TATTTGCTGA	TAGTACTCTT	CTGGATGAGA	AGTGATGTTG	TACAGCGCAC	AAAACCGCTC
207181	AGCAAGAGTA	ACGACTGTCC	ACGCGAATAT	GGTGTCGTTT	TTGTCAGCAC	CCGTGGCGAA
207241	TGTTGACGTG	ATGATGGACA	AGAGCTTCTT	TATATTTTCC	AAAGAAGCTA	TCTGGTTTTT
207301	ATCAGATGAC	GAAGTGGATG	TTGCACCTTC	TTCTAGACTA	GAAACCATAT	CTGGTGTTGT
207361	TGATGATGTT	GATGCAGCAG	CAGCAGCAGC	AGCTTCTTCT	TCACTTTGAG	TAGGTGGAGG
207421	AGGAATACTC	TCCAATTCTT	CAATTGTAGG	AGGTTTTAGT	GATTCTTTGT	GGGTAAATTG
207481	CCACATTTCT	GCAAATTTGC	CCTTTGATAG	TGCATCCCAT	GTGTTATTCT	TGAGTCTTTG
207541	TTGTAGAATG	TCCGTATCTC	TGGGCAATTT	CAGGTTTCTG	TTCTCATATC	TCACAACAAT
207601	TTGAAGGATG	GCGAAAGGCA	TGATTGTGTC	AAACTTGATG	GTGTTAACGC	CAGTCAAATT
207661	CCTGATAATG	TTCTTTGTTT	CTGGTTTCAC	GCGTTCAACA	CAATTCTTCT	TGCTCATGGC
207721	TTTCTGGGGA	AGAAGAAACT	CCATTGCCAG	AAGAGGAGAG	TTGTCAATGT	CACTCAGAAA
207781	GAAACCGTGT	TTTCTCTTGA	AGAAACACAC	AATCTGGTCA	AGCTTATCAT	CGTCATTGAT
207841	GATGCTATTA	TAGACATTGG	CAGCAAGGGG	AGGGATTGTG	TTAGGGCTG	GAGGAGGCTT
207901	GTTGATGTTG	TTCTCGTCTC	CAGAACCGCC	GCCAGATTTC	CCTCCGATC	CTCCTTCCTC
207961	ATTATCTTCT	TCCTCGTCGT	CTCCATCTCC	AGAATCGTCC	AATCCTTTAC	ACGCCATCTT
208021	CTCCTTTAAT	AGGGTAGCAT	TTGTCTTGGT	CAATAACAAG	CCACCTCCTT	CTGCCAGAAA
208081	CTTGTAACAC	ATGCCAATTG	TACAGAAATC	TTGATCCATA	ATCAAACCTT	TGTTTCTGTA
208141	AGGCATTTCT	GGCCCAAGTT	CAGAAAAAAG	GATCTTTCTT	CTCCAATCGT	CGGTATTGGC
208201	CATAGAACCC	ATGAGGTTTT	CGAGATATAG	ACACTTTTTT	TCGAAACTTT	CCAGTGTTTT
208261	GCACATCCAC	TCTTCGGCTC	TATCTGCCTT	CACGACACCC	AGAGAAGTCA	CCATGTTTTT
208321	GTTGCTGATG	GAGAGAATGT	TCTTCTTTTC	TCCCACCAAC	TGCGCATGGT	GATAGGGGAA
208381	CGCAGTGTCG	CTCACTTTAC	AATGTCGGG	AAGATTCCAG	TTATCACTCC	CGCCAATATC
208441	AATCTTGAAA	CAGGCAACAG	TTTTCTTGAT	CATACCTTCA	ACACGTTTCA	CGATTCTGGG
208501	CATACATTCA	CTCAGTAATT	CAAGTTGTAC	CTTTAAGATT	GACTTTAACA	ACACCACATT
208561	TTCTGTGTCT	GAAACAGCTG	CAAGACGTTT	CTCTTCAAGG	ATGGTTGGGT	AGAATATTAC
208621	CTTGAGCCCC	ATCAAAGAGG	CATTGGTGAT	GAAGGCAACC	TTAAACACTG	GCACGTCTGT
208681	TGCTGTTCTT	CCACAACCCA	GAAACTCTCT	GAAGGCAGGA	GTCACACATA	GTTTCTCTGC
208741	ACTAGAAGTT	TCTTCCTCAT	AAAGCCTCAT	CATAATAATA	AGTTCCTTGA	GAAGCTTTCC
208801	AGTTCCAACG	TGGGGTCCTT	CTTCATCCAT	GCGCCTATTT	TCATTCTGGC	AAGAACGCTC
208861	ATTAGCTTGT	TCCAGAAATT	GATCACCAGT	AATTTCTGGA	ACCTTTTTTA	CTTTGTATAT
208921	GCCTTTCTCT	TTGGATTTTG	CAACATCTTT	TAAAGTTGCA	GGTTGACTGT	ACATTATCAA
208981	TTTTCCATCG	TTTCCTCTGT	TCACTGTGTC	ATATTCAACA	ACATTACATC	CAGCATACAG
209041	AAGATTGTTG	GGGTTGACAC	TGCCGTCTCC	GCCGACTCTA	TCTTGACAG	CTAGATGCCC
209101	CATTTGTTTG	ACCAGAGGGT	TGCCATTCTT	GGTCAAGTTA	TCAGTGACTA	GAATTTGTTT
209161	CCCTTCGTTG	AGAAGGAGAA	GAGGTAGACG	TCTGTTGTCG	TACTCGGGCA	GTTTGTTGGA
209221	GAGACAGATG	CGTAGAGTCG	TTGGTTCCCT	TTTCATCTGG	TTGGCACATT	TTATTAAGTG
209281	ATCTCGCACA	TCACCTTCAA	GAAACTTGCC	TCCTCCTAGG	TTGAGCACAT	TTGCCTTAAA
209341	CATATTGACG	AGTGCAGTGT	GCTGGTTATA	AGTTTTGTTT	TTTCTTGTTT	AGTTATTTTT
209401	CTGAATGTAG	GATAAAATAA	CGTAACTTTT	CTTGTTGTCG	TGTTACCAA	GGAATCTTTT
209461	GATATCAATT	ACAGCTACAA	CTGGTAAGGG	GGTTGTCCGA	CGACCGTCTG	TATCCTACGG
209521	TATCCAGTGT	CGGACTGTGA	GCGAGAGAGC	TTGTGAGGGC	GTATTTATAC	AAGAATAGCA
209581	GCTGGTGCCA	ACTAGTGATT	TTATAGAACA	GAAATCATGG	ACCAGTACCC	AGAAGTGAGG
209641	GATACTCCTC	AGACAGAACA	GGAACAGGCG	GCGGCGCAAC	AACAACAAGC	AGCAACAACA
209701	ACAGCTGCCG	CTGCTGCTGC	CGCTGCTCCT	ACGCAGTACA	GTAACACTGT	TTCTGCAGAA
209761	ACTTTATCCG	CCATTTCTGA	AGATGGAAAA	TTGGAGAGGT	CAATCGCAGC	TTCTGCTGG
209821	ATCAATAACC	TTAACCCTGA	TGAAAAAATG	GCTCAACGTG	TCCAATTCCA	TCCACTTAGT
209881	TCCACGACCA	CATACGATTC	AGAAAATGTG	AACCCTGGTA	GTTCTGTTGT	GTTTTTGAAG
209941	CCTAGAGCCC	TCCCCACCGG	GGGCACGTGT	TTAGCCCCCA	ACTACATTGC	AGTGCCTACT
210001	CTTCGTGCTG	CGTCAGAAAT	TATCGATTCT	ATTGCATCAA	CTAGTCTATA	CCAATGTTCA
210061	ATGTTCAATT	CGTGGAATCT	TATTTCCATT	TTTAGAGTA	ATAGCAAACA	TAGTCAATTC
210121	GGTGATCGTG	TCATCAAGAG	ATCAATGATC	CGTAATTGTT	TTTCCAAACA	AAAAAATGTA
210181	GAAAATCTTT	TAAAGGAATT	GCGCAGGAGA	AAGGTTAACG	CCGCCAAGGC	ATTTTCTCAT
210241	GCAGTTCAAC	AGAAATCAGC	AGTAAATACT	GCCCTTGCA	CATGGAACGC	GGAAGTGCT

210301 GCAAACCTCG AAAAATTAGT AGATTTTTTGC AAATTGAAGT ACAGTCCCGA TAGAAAATAC
210361 AAAGCAGGAG GTCTTTTTTAG TGCCTCAGCA ACAGCTCAGT CACAATCAGG TACTTCTTCT
210421 TCCTCAGTTG AACATACTTC TAATGATTTT TTACTCGATA TCCTAAAACG TCACAAGGGA
210481 ACGTCCCTTG ATTTAGATTG AGCAACAAAC ACATTTGATA CTGCTCTTTC TAGGGTTTTT
210541 ACCGAGTTTA AGGAACAGGC TAGAGCAGCC GTAGATGCAG CCGCAGATTG AGATCACCTA
210601 TCCGCGTCGG ACCCTATTTT CTCTATTGTT CGACACAATA GCAGGCGTGA GGGTATTCTA
210661 GATTCAAGTGC CAAATATCGG TATGTTGGCT CCACGATCAA AATATTCTGT CGCAGAGTAC
210721 TTGATGGCAG ACAGAGACGA GTCTGCAGAT ATCGCTGCTA AGATAGGGAC AAAGATTGCA
210781 ACAGATTTTG AAGCATTGAG AGGAGATAAT AATAAGAGAA GAGCAGATAC TTCAGTCGAT
210841 GATCTCAAAG AATCACTAGC GGATTCTATT GAAAAAACTT CCATTAAAAA TACCGGCGAT
210901 ATTAATTCGG TCACAAATAT TCCCACAGAT ACAGAGGAGT ATGAATTTTC TCTCCACATC
210961 ACACAGCTTT TCGCGCAGGC ATTTTTGGAA ACTATGGGAA GTTTATTGAG CTGTGCTTTC
211021 GGTGTACAGT TCCCCTTCTC AGATGAAGGT TTTGCGGCTA TCGAAAGGAT TATACGTAAA
211081 ACAGATCCTG ATACTGGAAA GGTTTCAGAA ATGGACCCTT CCTCTCTTTC AGATCAATAT
211141 CTCTTGTTGG TAGGAAATTT CCAGGTTTCT CCCTTCCACG TTTTCAGATCC TAAGGATATC
211201 GTTTTCGGTA GACAAGTTAC GCCTAATACG CCTATTTTGA GTATCATTAC TAGATCTAAA
211261 AATGATAAGA ATGAAACGTC TACTATTATT AATTTTCAGGG ATAGGCTTCT TGTTAACGAT
211321 ACCGTGTTGA GAGACGCCAC GCAAACGTC TCAACTTCCA CCCCTTCTCA AAGAAGAGTC
211381 CCCACCGCCG CAGGTGAACC AAAAAAGCCA ATGCTCTCTG GTTGCCTACC TATCATCAGG
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211501 TATATCTCTT TGGGGGTCTA TTATGCCATG GGTTTCATCGG CTGCAGCTAT TGCCGCTGGC
211561 CACCAGAGAG CTCTCGCTTC AGCCGAGTCA ATTAATTCAC CCATGATGAA AAAATTCTCA
211621 AAGAAGGGAG GAAAGTATAC AGAGGAGGAA AAGCGAATCA AGAAGGCTAT GCGTAGGAAT
211681 GCAGATCGTT CTGCTAGGAT TTTGGCTTTG TTGGGGCAAA CTGATGCCCA GTATGGGTAT
211741 GTCGAACATA ATTCTACCTT AGATTCTGTT TGGTCTTCGA ATGCCGCTAT TCGTGCAAAAG
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211861 AAATGTTTCT CTTCAAGGGA TGAATATTCC ATGGTAGAGA GATATCTTAG AGACTCATT
211921 TTCAGGTCAG TTAATAGGTC AGGAGGAGGA TATGAAATGT TTGATCAAGG TTTTGATATG
211981 GGAAGATTTG CCGACTTTTT GAGTGACAAC TCTGCTGCCA GGAACGCTTG GCAACAGTAC
212041 GCAGAAGTAA TGAGAGGACT TTCTAAGCAT GAGAAACGCG TATTCAACAT TGAAGGTCTT
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212161 GTAGGTGGAA GGCATAGGCT TAACAATTTG AAGGCGGCCA ATAAGATCAT TAACGGCATC
212221 ACAGAGATGA CTCTCCAGTC AGCCATCGAT GGTATGGAA TCTCTGATAT TTTTGGTTCA
212281 GTTAGCGATG GGTGGGGAAA TACTACAGCT CAGCCGTCTC GCGTCAAAGC TCTTAAAAACA
212341 TTGTCCAATT TCAGCGGAAA CGGAAATGTT GTGTCAATTC CAGTTAGTCG AGCAGTAAAG
212401 TGTGCCGCGG GAAGTCGAGG TGGGGAAACT CTCAAGTGTG TGGACATTCC TTCAGTCATT
212461 ATTGCAAACC TAATCTCTGA TAAGAGAATT CTAGATCAAC TTTGCGGAGG AGGGATGAAC
212521 CTCGCTCACG AAATCACAAA CTTTATCGAG ACGATTGCAG GTAAAGAACA TACAGGAAAG
212581 GAATCCGTTT TCTTGTCTCC TAGATTGTCT GTCATTCTTT TGCGTTATAT TTGGTTCAAC
212641 GCAGCGGTTG TTTCCCTTAC GGATAGCAAC ATTAATAATGC CCCTCAACAC AATGTCCGAG
212701 GGCAGTGGCG ATGACATTTA TAGGGACTAT TTGGCCATCA GAGGCATGGT TAATAATTAC
212761 AACAGTAGTC TCTCCTCTAT TTCAGTCAAG GCTATTTCCG ATAGGTACAA TTTCGGTAGT
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212881 GTCCTTCAAC AGACTGCTAA TGCCTTGTCC GCCTTTACCA ACAAGGGAGG CGTGGGTGCA
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213001 AAGAACACCA ACGTGGTTGT TTCAGGGCTA GATAGGATCA CTGAGACCAT CAACTTCTTT
213061 TCATTTTTGT CTCAGATCAA AACAATGAAC GAGAACATTG AAGAGTATCT TAGGAGATAT
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213181 GCTATTGTTA AGCGAGAATT GGGGGTAAGT GGTTCCGCAT TGTCCAGTAA TCTCGATACT
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213481 TTCACAGAAA ATGGAGAATT TAGTAACGCA GAAACACACT TGGGGGTTAT GGGTAACGCG
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213661 GCTCACTCAA AGGCTAGCCC CTATGTCTTT AAGCCTCTCG TGCAAGATTT CGCTAAGCTT
213721 TTAAGTGGCAG TCACTGCAGA GACTTCTCTG GTTGTCTCTA GGTCCCAGAA GAGTTTCTTC
213781 CCCATTCCCT CTTCAAGTAT TTCTTCAGGT GGTCTTTTCA AAATTGATAG GGAATGTTC
213841 GATAATATGA AGACAGATTA TGTAATGGAA GTAATTAGAC AGCTATCTAA GAATGCTACC
213901 GCCGCCATCG AAAGGTGCAA TGATTCCGAT TCAGCTGCTA GGATTGCCAA GTCAGGTGAA

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213961	ATTTATAACA	AGGATGTTGC	ATCAACCACT	GCAGCTCCCG	GAACCTCTTC	CTCCGCTTTA
214021	ACCTTGTTTCG	CCAATAATCT	CCAGAACCCT	GCAAAGGTAT	GGTCTATGGG	AGCTCTCCCC
214081	CATTTTCGATA	TGGCCGTGGT	ACCAAACTT	CATGGCATTT	CTCACGATCA	AATGTTCCGC
214141	CTATCTACAT	ATTATCAGGG	TATTCATAAG	ATGGAACTTA	ACAGCGATTG	CAAACCGAG
214201	GAATGGGATA	ATTCTCTTCC	TGGAAATAGG	GCTAGCAAAT	TCTTTGGCCT	TTCTTCGGTG
214261	AGCGATAACA	ACCGTTCATT	CAATTTGGCA	TTGGATACTC	TTTTGGCTTC	ACCTGCAGAG
214321	ATTTGCGATC	TGGTGACGAG	GGAAATGGTA	AAGACCAGTA	ACGATATTGT	GCATAATATT
214381	GGATCGAATT	CCAACACGGA	CGCGCTTCAA	AAGAGCCTTC	AAGTTGGTGC	CTCAGCAGTA
214441	GAAAAATACG	ACGAGTCTAC	TCTTTCTACT	AAAGAACTG	ACGTATATTC	CCTTGTTTCT
214501	GCTCTGGCTA	AGAGCAAATC	TCCTCTATCT	TCTTCCTCAT	CTTTGTCGTC	TGAGGGACAT
214561	CTCACCTCTA	AGGAGATTGA	TAGGACATGG	AACACCCCG	CTCTTCTCGG	TACCGCTAAA
214621	ACTACATCCT	ATTCTGTTTC	TGAAGACGCT	CTCAATGCTC	CTCTTTCAGC	CGTGTTGGAC
214681	TTTAGAAGGA	ATGTTGTGGA	TGCTACTAAA	TCTCTGTACG	AAGTTGCAGC	TGTTTGTAGT
214741	GTCATGAGTA	AAGAGGAGGA	TGTGCGTTCT	TCGAGTAGAA	AGATTATGGG	AATGGTGGAA
214801	CAAGAATCGC	CCGTTATGCA	AGACATTGGC	ATTGACCGCA	TTGCTAGTCT	TGTTAGTACA
214861	GTTGCTACCC	CCAACACGCA	TCGCAGATTC	TTACAGACAG	TAAACGATTA	CAAAAATTAT
214921	CTCATTAGAA	AAGTTGCATC	GAATCCCCTT	CTCTCTTCAA	GATTGGGAGG	AATATCCCCCT
214981	ACTAGTGGTA	ACACCGATTA	CAACCTTAAA	GCTGTATATG	ATGGTGTTGT	TTCTTCCTCA
215041	TCATCAATGA	CCCCCTCGTC	CATGTCTGTC	TCTGACAGAT	TCTGGTCGGG	AGTATTTTCT
215101	CAGTGCCCTAG	AGACTGGCCC	TTCAATGTTT	GCCGATGCTG	GTCATGGAGG	TAGTAACATG
215161	TTCCAAATCA	CTGCACCTAA	ACTTTACGGT	TCTAGAGTCA	ACACCTACGC	AGCTCTGAGC
215221	TCTGGCGTTG	AGCGGCTGAG	AGACTCTATT	TCTTCTGCGA	CTCAGGAAAG	AAAGAATAGG
215281	ATTGCAAAGA	GCATCGAAGC	TCTGGAAACG	TTCGTAACCG	ATGTGGTGGG	GGGAGATACT
215341	TTGGATCAAT	TGCGTAAGGC	CCAGAACATG	TACAACAAAC	TGTCAGATAT	TACTTCCAAC
215401	TCTATCTATA	GTGATTTTCG	AAACATTGAC	TGCGCTAAAA	TCATGAAGAA	TGTGACGAGC
215461	AAGAAAATGA	CCGCTAGACA	ACAATCAGAT	ACTATTCTTA	GCTCTCTCTT	GCACGAACTC
215521	GCTGGCCTGG	TACACAAACA	ACAACCTCAA	TTGGCTACTC	AATTTGCTCT	GGCGAGCCAT
215581	GTTATCAAGG	CAAAGTATGT	CACTAATGAC	CTCAATAATA	TCCACGAGAA	GGAAACATTC
215641	AGTCAATTGA	TGGCCGTGGC	CGGTGTTGCC	GATTACTATA	ATGTGTCGGC	AGCTGCCATG
215701	TGTCAGCGTC	TAGTTGCTTC	CGACGTAACA	ATGTTCTCTG	GCGGAACCAT	GCTCCAACAA
215761	GGCCTGTTCG	TTTCATTCCCT	TCTTAACAAC	GTACTTTTCT	CCCAGGTTTC	TGATAATATT
215821	AAAATGAACG	AATTGAACGA	TGAAACAAAG	TCTCTTTTGG	TTAAACTGGT	AGGATTTTGC
215881	GGTACAGTTT	CAGATGCGCT	AGGATCTAGG	CACGTGTCTT	CAATTAGACG	TGTACAGAAC
215941	GAAGAGGATA	AGAAATTAGA	CAGGAGTTTT	GTTACATCAC	TTTATTACAG	ATACAGAGAT
216001	TTGAGGAAGA	AGACTGAACT	ATACAGGGAA	ACTGATACTA	TTAACAAACT	TTTCGGACAT
216061	CAAAACTTTA	TGTCTTACGA	ATCTTCCATG	CTCAAGAGGA	CTTCCTTGGT	ACATGACGCT
216121	GTTTCCGGCC	CTAGGCCAAG	AAGGTACAGC	ACCCTTGAGG	ATGTACTTGA	GGCTCCTTCC
216181	ACGGTTCACA	AATCGTTCAT	GGTTTCTTAC	CCAGAGAGGG	CAGCTGCTTC	TAGGCGAGTG
216241	AAGAGGGCTG	GACTCAGGGC	TCTGGCTGAT	AACAGGATGG	AATCTCTTTA	CGGGGAAGAA
216301	GTCTTGAACG	ATATGAGGTC	TTCCGGCGGC	TCTTCCGAAA	TGATGGATAT	AGAGTATGGT
216361	GAGGGAGGAT	TCATGATGAT	GATTAGTGAT	GATGAGGATG	ATATTGCCTT	TATTGATTCC
216421	GAAGAAGAGT	CTGAATCATC	TACTGATTTT	TCCTCATCAG	ATGAATATTTC	CGATTTCATC
216481	GATGAGTATG	ATTTTGATGA	TGATAATAAT	GGCCAGTCTC	CTTATTCAAC	TACATCTTAT
216541	TCGTATGATG	CTCTAGACCG	TCTGAATTCT	GCCGCTAAGC	CTCTTACTGC	CATCTACGGG
216601	TGCAGGGGAG	AAGGTGAAGA	CGATGAGGAA	AATGACCTCT	ATGAAGAAGA	ACAAGAAAGG
216661	AGGAGACGTC	GCTCATCAAA	GATGGGGAAG	ATCCTTAGAG	ATCTTCATGA	GAGTGATGAT
216721	GACGACGATG	ACTACTTTGA	TGACGAATTT	GATGGCGAAC	GTTCAATGTC	AGAAACTATT
216781	GCAACCAGAA	GAGCTGGCCG	TATTCAATAT	GGTCCAGGTT	TCCTATCTCA	TTCTAATATT
216841	CTTAACCGTC	CGGCTAAAGC	ACGCGCTTTC	TTGACACGAG	GCAAGAAAT	CAGGCCTTCT
216901	GCGTACGATA	GATTCTTTAT	GGAGGATGAC	GATTCCCTCC	TCTTCTCTGA	CGAATCTACC
216961	ACTTCTTCTT	CCTCTTCCGA	TTCTCCATTC	TCCTCCTTCA	GCAAGGGGAG	AAAATGCAAG
217021	CGCCGAACAA	GCGAGGACCA	ATGTGCTTTT	GTTAAGAGAG	TTGTACGTGC	TTTTGTGCCC
217081	ACCAGATGAA	CAATGATCAA	TGGTTCGAGT	AGCATGATCA	CCCCAGTGAC	TAGTGAAAT
217141	ACAGTAGGAT	TCTATGAAAA	TTACCAGAAG	GCCAACAAGA	GGGAAAGGGC	GCGTCTGATC
217201	GAAGAATACA	AAATTGTTAA	GGGTGCTTCA	GCTACCTTGC	CCGACGAATA	CGTAGAGGGT
217261	AGAGCATCTA	AACAAGTGTC	TCCCAGGGAA	CTGAGGAGGT	CTCTTATCAA	GGCAGCTGCT
217321	TATGTTGCCC	GCACCCAAGA	AAGTAACTTG	AATATTATCT	TTGACGCTCT	CACCACAACA
217381	TCAAACGCCA	CTCTAGTTAA	TGACCCATCT	ACTCTTTTGG	GTGATACACT	TTTGTTTCGCC
217441	AAACAACCTAG	AGGCAATTAC	CGAGAGGAGG	AATAGGCTAA	TGAAAGACCT	AACTGAAATC
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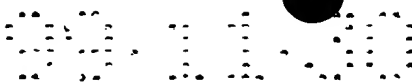
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236041	TGAAAAAATT	TTTGAAAAAT	TTTTGATGAA	GGAATATAGT	AGTATAGTGC	CCGCCAAAGC
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236161	GAACCCAGAA	ACGTTTCAAC	TCATTTCTGG	ACAAGTCATT	TCTGGAAAGG	GGGTACAATT
236221	TCTTATAACT	GGTATATTAT	TTCTGGTATA	ATTTTCAGGCA	CCTTCGTGCA	ATCTGACATT
236281	GGGTCGACCC	AGCGGTCCAC	CCTCCGAAC	TGACATCGGG	CCTACCCAGC	GGTCCACCCT
236341	CTAAACTCGA	GTGACGCAGA	AAAATTTTTG	AAAAATTTTT	GATGAAGAGA	TTGAGTAAAA
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236461	TGCGTCCATC	ATTATATTTC	CAAGAATTTT	GCTGACGTCA	ATGGACCATA	AAAGGCTTTG
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244681	AAGGCCTTTG	TCGGTAGCTC	CAACACCTCC	TCCTTCACCC	CCGTCTCTAT	TGATGAGGAT
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244921	ATTGAGGAAA	TTTATACCAT	ATTTTATTGA	CCTACTTAAC	CTTCTTGCTA	TACAATGAAT
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245041	CAGGCGCAAT	TTCATACGCT	CTCGGCCTAT	TGGTCTTTTC	CTGGTCATAC	ATTTTAGATA
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245161	TAATCAAAAT	GGACAACATG	TCTATTAAACA	AATAAGCCAA	CCCAAAAGTC	ATGGCAGTTT
245221	CTGAACACAA	CTCACTGTTA	ATAAATTCAG	GAGCTGTATG	AGGATGGTTA	CTAAAGAACC
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245341	AATCAATCAT	CTTAGGTTGA	CCAGTTATTC	CATCAATTAC	TATATTGTCA	CTTTTTATGT
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245461	CAAAGGGCAA	TTGGTTTAA	ATTCTCTCCC	TCATTTTTCC	AACGATAGCT	ATGGCTGAAA
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245581	CTTGAAGCAT	CCTAACACCG	TACAGAGTAT	CCCTCATCCT	ACACAAGCTG	CCGATCTCTT
245641	GCACTGAGCTC	AGCGGCTGGC	TTGGAGGAAG	TAGTCGAGGG	GTTAGGTTGC	TGTACAACAT
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246121	TAAAAACATT	CTTTGCCATG	TGATCGATGC	TCATGGTTTT	TATCCACCCT	TTACCATTAT
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246241	TACCAAACCC	AACAGGCCAC	CAAGATGAAG	GGGGTTGTTT	AGTACGGTTG	TTAGACCACA
246301	AAAACCTTGA	CGCTTTTTTC	TTTGGCTCAA	TACAGCTCTG	TTTTATGGTC	TCGTAGTTGG
246361	ACGACACATC	TTGCACGTCA	GAAATGAGGC	CTAATTTTGC	GGCCTGTCTA	ATCAAATGGA
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246481	GGGGTTTTTC	TAGCTTGACC	CACCTGTCAA	TGGAAGAAAA	GTTCTCTTTT	ACTACATTTG
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246661	TTGGATGAGA	GAATCTTTTT	CTGTACTGGG	TGTCGGCATT	GGCGCGGTGC	TTCTTCAACA
246721	CAGACGCGGC	ACTAACAGAA	GGCAATTGCT	GCTTCTTGAT	AATGTCTGTC	GCATACGTTG
246781	GATTTAATGT	TGCAAATTGA	TTTTTCATCA	TAGTAATAGG	CCTCTTCTTC	TTATTTCTAT
246841	TAAAGTTGTA	AGGTGTGCTC	TCGTAGTCCT	CGCGGAGCCT	CAAAGTCACA	GGAGGCGGGT



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254101	AGGTGGGGAA	TTTTTATATT	TTAAATACAC	AATCTTTGAA	GAGAATGGAC	CTTTCGACTC
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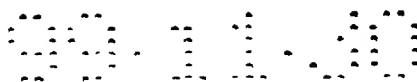
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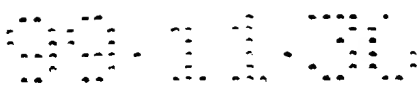
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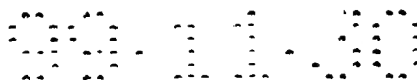
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298561 TTAGTGAAAT AAAAGACGCT GTTAGAGGTC TGGCCTTTTC TACCACTACA GGTACTGTGT
298621 GGAATTATAC TGATGAAAGA TTTTTTGGAC CATTGTATAA CATGGATGAA CTTTGTAACG
298681 AACGTGTCAA TGGAAATTGT AAATTGTCCT TTATAACTGG TATTATCAT ACGGCAGCAG
298741 TAGAATTGGC TGCTGCATGT CTATCTGTG TTTTGTAGA AATGATAATA AAAAACATGT
298801 ATAATTTTCT TCTGGTTTTT ATTTTATATC CTCAAGAGTT GTAGTAGTAG CAGCAGCAGC
298861 AGCAGCAATA GCAGCATTAT TTTTCAGCGAC AGCTTCTTCA TTTCTATTGA TTGATATCTG
298921 GTCATTTTCT ACAGCCCATG GTCGTTTAAG GAATATTCTT TGAAGCAGAA ACACATACCC
298981 AGCAATGATT GCAATGATCA ATATTAATAG TAGCGAATTA ATTAAAAATA GCATTTTGTC
299041 CACATTCTGG CTAATAATAA AAAGTTTATC TCTCAATGAA AAATTTTTAT TGACCAATCA
299101 CTTCCGGGAAG TTTTGCAGCA TGACACACTA TTACTCCAAA ACTATGCTCA CTCGTATCTA
299161 GTCCCAACAAC ATCAGCGCTC ATATTTAAAA CTTGACCTT TAAAGCCTGT TTTTCTTAT
299221 ACAATTCTGT ATTGATTATA GGGTTTACAA CTTTAGGCC TTCCTTTAGA GATACTATTT
299281 TCATGTATTT TACAATCGAA TATGAGTTGT CTTGTGCACC AGACGGGAGC CTGTCATGAA
299341 ACTCTACTTC TCTCCACGT GTATTGAGCG AGAGATCATT AAGCACAAC TCTGAAGAAA
299401 CGAGAGGTTG TAAAATAGAG TTATATTTAG GTTTAATTAG GAAACATTTG TGGAACTTG
299461 AACTGTTAAT ATCAATAGAA ACTGAGCTAT ATGCTGACGA CATGGCTTGC ATTTTCAAAT
299521 CATGTTCAAA TCTTACTACA TAACCCAAGA AATTATAATC TGCTTCTTCA CCATCATCTT
299581 CTTCCATGGC ATCCTCTCCT CTTGGCTCTT TTAGTACAAT TTCTTTTGGT TGGTTAGTCA
299641 TGTTGTATAT GTTCATTGAG CTATGATTTT CCACAACATC ATATCTAATG ACACCGACTG
299701 GGATAATGCA TGCACCGACA GAGGTGTAGA ATAATCCTCC ATATCTAATG ACACCGACTG
299761 CGGTAGCGTT CTCTTCATCA TAGTAACCGA GCTTGATTTT CACATGACTC ATGGGTCCGA
299821 TAGAGATATT GGAAGCCGGT TCAGTAGCGG AAAAAATAGA CACTTGTGG AACATTTTGT
299881 CGTCAGGAAG AGTCTCGAAT AAAATACCGA CAGGGGAATT ATCTTCAACA CTATTAAAGT
299941 TTGTTGCATA AGATAGCCGC CCTGAACCTAC TTGTATTATA AATTGTTATA TCGGATGCTA
300001 TTTTCAAGCA AAGATCTCCT ATAAAATTGT GATTAGGGCA GACCAACATC CCGTCTCCAG
300061 TGTAAGACGA TACATGAAGT CTTGGTCCAG TTGGCACGAA AATGGCAGCC GTTCGTGAAG
300121 GATTTCTCAC GTCAACTCGT CACCTCTTCA CTGGTACTTT TCCAAATCGT CGTGGATCTA
300181 CATTGAAACT AAAATCTCTT TCGTGGGGAT CACTTCCATC CTTTAAAGAG AAGAGAGGCA
300241 CTCTGTAAAC AGGAGACCAA TCTGAATAGT ACCTTAAAGC TGTTCTATTT TTTTCTTCTA
300301 GAGTGGGTAC CGCTCTGCGG TGCATTGCGT ACACCTCCAA ATCCGTTTCC TTTACTTGAA
300361 TCGATTTTGC TCCTTCATTT TCCCAGAGCG CATCAGAATC GTACCTGTCTG TCGAACGAAT
300421 CTTACCTCC CATTTTATTT ATTTTCTCT ATATGATAAA AACCACACT AAAATGTCTA
300481 ATATTTTACT AACTGAAAA AATGGCGTAC ATTGACCAAG GGGCGTTTGG AGCCAAATCT
300541 GTGATGCAGC AACAATACCT TCTTCCACCC TCTAATAGGC TCTCCAAACA ACAACCTCCA
300601 CTGGCATCAT CTCTCTTCA ACCTTCTCT TCTAATAAAC CTAGGAGTAC ATCAAGAGTA
300661 ACAGACATAT TTGTTGTGAT AACTTGTGTT GTTTTAATTG CTGCTTTTAT AAGCAACTCA
300721 TTTAGTGTTA CAAAAATGT GGTAAACTT TCTAAGAAG AAACCGAGAA AATACTAGAA
300781 AAAGATTTGC CTGATAAGGT GTACAAATTG TTTGAAAATT TAAAGGATGG AACATTTGGT
300841 ATAGGGGAAG ATGAGGAGGA AGAAAGGGAG GAGAGGGAGG AAGGGGAGGA AGAGCTTGAA
300901 ACAAAAAACA TAAGACTTAA AAGAAAGTGG AAAGAAATGA CTGAACAAGG GGATCAAGGA
300961 ATAAAAGTAA GGAAATTACA TGGCCCGAGA GGAGAAAGAG GAGAAACTGG TCCAGCAGGA
301021 GCAGTTGGCC CTGCAGGCC TCAAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301081 GGAGCAGTTG GCCCTGCAGG CCCTCAAGGA GAAAGAGGAG CAATTGGACC GGCAGGAAAG
301141 GATGGAGCAG TTGGCCCTCA AGGCCCTCCA GGAGAAAGAG GAGAAAATGG ACGCCAGGA
301201 AGAGATGGAG CAGTTGGCCC TCAAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301261 GGAGCAGTTG GCCCTCAAGG AGAAAGAGGA GCAATTGGAC CGGCAGGAAA GGATGGAGCA
301321 GTTGGCCCTG CAGGCCCTCA AGGAGAAAGA GGAGAAAATG GACGCCAGG AAGAGATGGA
301381 GCAGTTGGCC CTGCAGGCC TCCAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301441 GGAGCAGTTG GCCCTGCAGG CCCTCCAGGA GAAAGAGGAG CAACAGGTAT ACCAGGAAGG
301501 GATGCGCTGG ACGGTTCTGT GGGCCCTCAA GGAGAAAGAG GAGAAATTGG ACGCCAGGA
301561 AGAGATGGAG CAGTTGGCCC TGCAGGCCCT CAAGGAAGAA GAGGAGCAAC AGGACGCGCA
301621 GGAAAGGATG GTGCAGTTGG TCCTGCAGGC CCTCAAGGAG AAAAAGGAGA AGCTGGTAAG
301681 GACGTTCTA TAGGGCCTCA AGGAATACAA GGCCCAAGAG GAGAGACTGG ACCACCGGGA
301741 AGGGACGGCA CTGCAGCAGA AAGAGGAGAA AGAGGCTTCC CAGGACCACC AGGCGAAACT

301801 GGACCACCAG GAAAGGATGG TGTGGATGGT TCTGAGGGCC CTCAAGGGAA AAGAGGAGAA
301861 ACAGGACCCG TTGGACCTAG GGGTGAACCA GGTCTAGCTG GCCTCCCAGG AAGAGATGGA
301921 GCAATTGGCC CTGCAGGCC TCCAGGAGAA AGAGGAGCAA CTGGTCTACC AGGAAGGAAT
301981 GGTGTGGATG GTTCTATCGG CCCCCAAGGA AGAAGAGGAG CAACAGGCCG CGCAGGAAAG
302041 GATGGGGCAG TTGGCCCTGC AGGCCCTCCA GGAGAAAGAG GAGCAACAGG TATACCAGGA
302101 AGGGATGGTG TGGACGGTTC TGTGGGCCCT CCAGGAGAAA GAGGAGAAAC TGGACCAGCA
302161 GGAAGGGACG GTTCAGTTGG CCCTGCTGGC CCTCATGGAG AAAGAGGAGA AAATGGACGC
302221 CCAGGAAGAG ATGGGGCAAC TGGCCCTATA GGTCTGCTG CTCCTCAAGG AGAAAAAGGA
302281 GAAATGGAC GCCCAGGAAG AGATGGAGCA ACTGGCCCTA TAGGCCCTAG AGGAGAACT
302341 GGTGCAATGG GAAAGAATGG CGTGGACGGT TCTATGGGTC CTCAAGGAAG AAGAGGAGCA
302401 ACAGGCCCGC CAGGAAAGGA TGGGGCAGTT GGCCCTGCTG GCCCTCCAGG AGAAAGAGGA
302461 GAAACTGGAC CAGCAGGAAG GGACGGTTCA GTTGGCCCTG CTGGCCCTCA AGGAGAAACA
302521 GGATTAAC TG CAGCCCCAGG AAGAGAGAAA TGGACGCCCA GGAAGAGATG GAGCAACTGG CCCTATAGGT
302581 CAAGGAGAAA AAGGAGAGAA AAAAGGAGAA AATGGACGCC CAGGAAGAGA TGGAGCAACT
302641 CCTGCTGGCC CTCAGGAGA AAAGGAGAA GAAACAGGAT TAACTGGACG CCCAGGAAGA
302701 GGCCCTATAG GTCCTGCTGG CCCTCAAGGA GAGAAACTG GTGCAATGGG AAAGAATGGT
302761 GATGGAGCAA CTGGCCCTAT AGGTCTTAGA GGAGAACTG GTGCAATGGG AAAGAATGGT
302821 GTGGACGGTT CTACGGGTCC TCAAGGAAGA AGAGGAGCAA CAGGCCGCGC AGGAAAGGAT
302881 GGAGCAGTTG GCCCTGCTGG CCCTCCAGGA GAAAGAGGAG AAAATGGACG CCCAGGAAGA
302941 GATGGAGCAA CTGGCCCTAT AGGTCTGCTG GGCCCTCAAG GAGAAACAGG ATTAGCTGGG
303001 CTGCCAGGAA GAGATGGAGC AATTGGTCTT CAAGGAGAAA AGGGAGAAAA TGGACGCCCA
303061 GGAAAGGATG GGGCAACTGG CCCTATGGGT CCTCCAGGAG AAAGGGGAGA GACTGGTCTT
303121 ATAGGTCTTG CTGGCCCTCA AGGAGCAACT GGTCTTCCAG GAAGGGATGG TGTGGATGGT
303181 TCTGTTGGCC CTCAAGGAAA AAGAGGATTA ATAGGGCGCA CAGGAAGGGA TGGGGCAATT
303241 GGCCCTGTAG GTCCTGCAGG CCCTAAAGGA GAAACAGGAT TAGCTGGCCT GCCAGGGATA
303301 GATGGAAAGG ACGGTTCCGT GGGTCTCAA GGAGCAATTG GACCTATAGG CCCACGAGGA
303361 GAAAGAGGAG AAAGTGGACG ACCAGGAAGG AGCTACGGGA GCTCCAGGAC CGCAAGGAGA AAGAGGATTA
303421 GGCCCCCAAG GACTAAGAGG AGCTACGGGA GCTCCAGGAC CGCAAGGAGA AAGAGGATTA
303481 AAGGGACGGC CAGGAAAAGA TGGTGAACA GGTCTCCAG GCGCACAAGG AAGGGATGGA
303541 ATAATGGGTC CTAGGGGTCT TCGAGGAGAA AAAGGAGCAC CTGGTAATGA TGGTCTAGAG
303601 GGACCTGAAG GAAGAGATGG TGCACCTGGT CCGGCTGGCC CTATTGGACC TCAAGGAATA
303661 AGAGGATTAA AAGGTATCCA GGGACGACCA GGAAGAGACG GAGAAATGGG ACCAGCCGGC
303721 AAGGACGGAA TAGAAGGCCC TAGAGGTCAA GATGGAACAA CTGGCGCTAA AGGACCTAGA
303781 GGATTAAGAG GTTTTCAAGG AAGAACAGGA GAAACTGGTG CACAAGGATC TAGAGGAGAA
303841 AAAGGCGATA GAGGGCTAAC AGGCCCTCAA GGAAGAGACG GTCCACCCGG TGAAGAAGGT
303901 CCTCAAGGTC TTAGAGGAGA AAGGGGAGCA CCTGGCCCTA GAGGTCTTAG AGGTATTCTG
303961 GGCCGTTTCA GACCTCAAGG AAGTAACGGC GTGCAAGGAC CTCGAGGTCC CCGAGGAACA
304021 AAAGGAAGAA CAGGAATACA AGGCCTCACT GGCATAGAAG GTCCTCGAGG TCCTAGAGGT
304081 ATACAAGGAA AGGAAGGAAG AATGGGGAAA ATTGGACATC GAGGAGAAAA GGGTGATAAA
304141 GGAGACCGTG GAGAACAAGG CATCGCTGGA GCAGACGGGG AAAAAGGTCT AAGAGGTTTA
304201 CGAGGAATTC GAGGCCCTAT TGGTGCTCCT GGTAAAGCCTG GCACGGAAGG GGTTAGAGGT
304261 CCTAGAGGGG TGAGAGGTGT TCCTGGCTAT CCTGGCGCAC AAGGGGAATT AGGTCCCCAA
304321 GGACCAACAG GTCCTCAAGG GCCAGCAGGT CCTCAAGGGC CGATGGGGCG TACAGGAGAT
304381 ACTGGTCCCA TGGGCCCTCC TGGAGCAGTG GGACCAAGAG GAGAGAAAGG AGGTAGAGGA
304441 AGAAAGGGAA AAAATGGCCC TAAAGGAGCG GACGGAAAAG ATGCCGTAAT TATCATACAA
304501 AAATATTCAA TCACCCATGC TCGTGCAGAG ATAATGTGGG AAGGAAATGA AATCGGAGAA
304561 GCATACATTG GAAGATCTTA TGGAACTGAT ACAATCCCTG TGATGATAGA AAATAGAATA
304621 GGGATGACAA ATGAGGACAA AAAAAACGAA TATTGTATAC AAGTAATGAC AATGCACTCA
304681 ATAACAATA GAGGAAGAAC ATCGGGTGT TTTGTGGTAA GCAATAAGAC AGATTATATC
304741 CTTTGTAGTTA CTTTACTGAT GCCAGAAAGT GTTTCTGTGA GAACAGATGT CAGTACAAAT
304801 GCGAGGTCAG AGAGGGTGAA TGCTGTTAGA GAAAGAGAAA GCAAATCGTA CAGATTTTAT
304861 AGCCGTCTG ACCAATCTAT AGGTACTCAT TCACGTCAA AAATTGCCGT GGTAATGTAT
304921 CCAGACGCAA GCATGAGTTA CTCAGTTGAT ACATTAGACG CTGATGTGGC GCGAAGAGAA
304981 ACAACGTCTG TGCTTTTATT AGCAGAAACC ATACACGGGG AAAAAGATAG AGGTTTCTAT
305041 GCTGATAGAG GAACTGTAGG GAGGTTGATG GTACCTCCCA CTGAAGAAGA GTTATTGGTA
305101 TTGCAAGC

5. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于 WSBV cDNA 序列:

编号: C001 长度: 1642 bp

碱基对组成: 592 A 281 C 353 G 416 T

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1 CTTTAAACAA TTAAAAGTAA AAAATGGTAT TTGTTTGTCT GGGGAAAATA CCGAAAATTA
61 TGAACGGGTA CTATTAACAT TCAAATCAGT CAAGAGTGTG AGGAGAAGTG AGCTAAAGGA
121 AGGACATTTT ATAGTTCGTC TTAGAGACAA GGAAGTACTC CACATCAAGA ACGGTAACGA
181 AAGATTGAGA CAATTAACAG GAGATCCTAC GCTTCAGATT GGAATAAAAT ACACATCCAG
241 TCTCCCAAAA CAAGGTAGTT TCTTAGAAGA TGAAGACCCCT AATTATGGAA AAAAATGGAA
301 CGAATCACTA CCAAGCCCAT TCCAGGAAAT GAACAAAATT GTGGAAGAAA AGGCTCTAGT
361 TAATGACAAG AACTTTAAAT TTACCCCT ATACAGAATC ATACATGAAC GTCTTTCAAA
421 TCGGCGCGTT AAGAAATGTG ATTATATGAT AATCACAACA GACTTCTTAG TAGGGTGTGG
481 GTTTTCTCCT AGAAATTGTA CCCGTACTCT TAAGAATATG GAACAAGTGT TAGTGCAACA
541 CGGTGGTACC TCTTCTCGTG TATCAGTGTA TGATATCTGT GATAGGTTAA CGTACAATGG
601 CTTAAGTATC GCAAACCCCA TAGTTGGCAG TTTTCAAAT ATGTGCCTAA TTGTACCAAT
661 GGATAAACTT GGATTACTTT TCTACACAG CACACACCCG TCAGCTAAAA GCATTGGAAA
721 TTACATGTCA TGCTTTTCA ATGCTGCAGT TGTATACAG CTAGAAAAGA GTAATCAAAA
781 ATTAGATAAT TTCGAAAAGG AAATCAGATT TGCAAAAAAT GAAGTCAACC TTCTAGTTAG
841 CGAAAGAAGT GTTCTGGAAG AAAAATTAA AGAATCCAAA AAGCTATATG CTGCCTCAGA
901 AGAACAAAAG ATTTCTCTTC GAGATGTGCA TAAAAAGTCC TCAATTGCAT CATCCAGATA
961 TGACGGCGGT GCCTGTCTGG TCTTGCCTT TTCTGACCGA GATTTCTCCT TGTGTGTCAG
1021 AACCAATGGA AATGGTTCCT TTTACTCTGC CACAGAAGAA GGAATCAGAT ACGTCTCTTC
1081 GGACGACTAC AGAAAGAGGG ACGTGGATGA ACGTAGGCCC AGATTGGTCA TGTCCTAAC
1141 TGGCTCAGAT GCACCTATAT GCATCAGAGA TAGTATACGA AACCATTTTA ATAACCATT
1201 CATTGCATCC GGAAAGGGTA ATGAAATATC ATTCATCGAT CCTCCGAATG AAAGGTTGTT
1261 GATGGAGATG GTCAGAGAGG TTAATGATC AGACATCAAA ATCTTCATGG ATAATGGAAA
1321 AGTATATCAA GATGGTGTAG AAATAAAAGT GATTGACCCC TCTTCTAAAG AAGGCAAGGA
1381 CATAATAAAA AAGGAAGAAA CATTACCAGA GGAGGAAAAG AAGCGTCTGC GCCGAGAGCG
1441 TCGCATGATT TTCAACACAG TTAAGCAAT TGAGACGTAC AACGAGGAAC GTGGGGAAGA
1501 AGAAGAAGTA GCCACAAGCA GTGGAGGAAC AAAGAGAAAG AGGGAGGAGA AAGAAGGCGA
1561 TTATGTTGCC CTTTGAACA AGGCATGCAA AGAAATTAAA GTTTGTTGAA TATAATGGAC
1621 AATAAAACAA GTTATAACAT TT
  
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编号: C002 长度: 750 bp

碱基对组成: 226 A 186 C 165 G 173 T

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1 GCAAAAACATA AGTTGGGAGA AAATGGACGT TTCTTCCTAT AAGAGCACTA TTGACTACCA
61 CAACATTGAA GATATGGACG ATCTCCAGCG CGCCACCTAC AAGGATCGTA TGGAGACGGA
121 ATTGGTCCCT GAGATGGCTA AGAAGGAGGG AAGGTACGTC CGATCGTTGG CCACCATGGA
181 CGAATTGGAG GTACCTGAAG AACCAGCCAC TTGCTACACT TGCGGCTACA CCTTTATTAG
241 ACGCAGGGCA CCCCCACCAA AACGCAAGTC AATATTGAGA GAGCCTTGGC CTTACCCAGA
301 ACTTCTCCCC GATGCACCAT CCCCCGTCCG TTTAGAAGAG CTTGTGACG TGCCAGAAGG
361 AGCGAGTTTT TTCACCTACC CTCCCTACGA CGACGGATCT TCTACATCGT CTTACCAAGC
421 CGAATGTGAA GATGATTATC CTCCACCATA CGACCCATCA GAAAATCCAC AGAGGTCCCA
481 AGTGTGTGAT TATTGTACCA CACGTCAAGT CCTCAGTTCT ATGACGGATC ACGCCAGGGC
541 CAACCTCATA AAAAATCTGA AGAGGGAGAA GAAGGCCCTG GGTCTTGGCC GTCGCAACAA
601 CTTTAGCTAC TAGGGTTGTA CAAGAAGAAA ATAGGATTGA TTGTATCGAT GACGAACTTT
661 GCATGTTTTT GACCAATCTT TTGCTTGCTG AGTGTACATA GCTTTATATT TGCCAATAAA
721 ACAGACCCCG AATGTAAAAA AAAAAAAAAA
  
```

编号: C003 长度: 431 bp

碱基对组成: 146 A 68 C 99 G 118 T

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1 CTGAAGAATA TTGAAAGAAG ACTTCTTGAA GAGGACCGAT AAAAAAATGG CCACCTTCCA
61 GACTGACGCC GATTTCTTGC TGGTGGGGGA TGATACTAGT AGATATGAAG AAGTGATGAA
121 GACTTTTGAT ACTGTTGAGG CAGTCAGGAA GAGTGATCTA GATGACCGTG TTTACATGGT
181 GTGCCTAAAG CAGGGATCTA CTTTTGTCTT CAATGGAGGC ATCGAAGAAT TCGCTCTTTT
241 GACTGGAGAT TCAACGCTGG AGATTCAACC CATGATTGTG CCAACAACAG AATAAAATAA
301 AGACGGTGAC GGGAGACTAA TATCTTTCTT AGTTTCCCGT CACGGTGAAA ATGTTGGTTA
361 TTTCTTCCCT ATGTTTAAAA ATTTGTCTTG GTTAAAAAAA TAAACGAAA ACTGTCAAAA
421 AAAAAAAAAA A
  
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编号: C004

长度: 624 bp

碱基对组成: 177 A 111 C 157 G 179 T

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1 GGCACAACAA CAGACCCTAC CCGCCCCAAT ATCATATTCT TTGAAAGTCT ACTCCCCAAC
61 TCTGGTATTG AGGTGATGAA GAGGCGTCTC GTACGGCAAG GAAAGTGTGG GAATTTTGAA
121 GCAAGTGGAG GTGCTATGTC GTATTTCTGG CTCGAAGATA ATGCAGAAGA TATGGAGAAT
181 CTCAACAGTG GTTCCCATGT CAAGACAAAC TGCTTGGCAT TATTCCTTCA AGAGTTTATC
241 AGCAACTGGA TTGAAGAGAC TGATCGACAT GGACAGTACT GTACTTTTCC CCAATACATG
301 GACGGTGGGG ATGGTTCACG TGGGGGATAT TTTACTTCGC TAGCCATGAA ATGGATGGCT
361 AGGGATGTGA CTTTCTTTGT GTTTGTTGAT AGGAATAATA CTGTAGAAAA TCGGCGCATCC
421 ATATGGATGT ACCAAAACT ACTAGCAATT GGTGCAAAGG TAGTAAAGGT GATTGTTGAC
481 AATGCATCAA ACCCAATGTT TTCTGTATGT AATGCGTGTA GGTGCAAGTA CCCAGGCCCA
541 GTGTCATACG TTATTGAAGG CCATGGAGTG GGTCATTCTG ATTTGACATG TGATGAGATT
601 TCTGGATTCT TTGTATAATA AAAC
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编号: C005

长度: 221 bp

碱基对组成: 88 A 35 C 35 G 63 T

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1 GAAGTTTAA GGGTATCTCA ACTCAGATGG AGCCGCTTGT TCAATGAACA ATACAACACT
61 AGAATGTCCC TCAGCACCAA AAGATTGAGC CTCATGAAGA TCTTCAACCA TGATTGGGT
121 GTGTCTAAAT TTGGTGATA CAACTCCTA GATATTATTG AAATGTACTG TTTTACTTTA
181 ATCTAAACAA TAAAAATAAT GTAAAGAAAA AAAAAAAAAA A
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编号: C006

长度: 300 bp

碱基对组成: 141 A 30 C 79 G 50 T

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1 AAGAAGACAC TGCCAAAGGA ACCTGCCGTT AAGAAGGTGA AGCAGGAAGA AGATGTGGAG
61 ATGGAGGAAG TGAAGGAAGC AGCAGCAGAA GAAGAAAAGA AAGAGGAACA GGAGGCGAAG
121 GAGGAAGACG CTACTGAGTA TGACGACGAT ACAGAAAGAGG ACGAGAAAGC AGTAGCATCT
181 GATGAAGATG AAGATGATGA AGATTCTAAA GCTATTTTCT AAATATCATG TGTATAAAAT
241 GTAGTATTTT AAAGGTATAA ATAAACACAA TATAAAGTTA AAAAAAAAAA AAAAAAAAAA
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编号: C007

长度: 645 bp

碱基对组成: 208 A 106 C 161 G 170 T

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1 CTCCTCTGTC GCATCATCCG TGATGATGGA AAGAGATGAA GAAAATACAC TGTCCCTCAG
61 GAACAGGAAT GTGAACAAAC CAACACCTGT TAGCGCCGCC TGGGTGCCTG TTGATGAAGA
121 GGATGAAGAT AGGGAGGAAA TGAGAAGACT TGAAGATTTT TCTTCAGATG AAGAAGACGA
181 TGATAATAAA TCATGTCATT GTGACCATAG CGATGACGAT GACGATGACC AGGAGGATCC
241 TTCATGCTTT AAGGGTTTTT CAGCTGGCCT GTGCTCTTTT GTGAGGGGTT TCTTTGGCTT
301 CCTCAGGAAG TCACTTACCA AGAAACAGGT GTTCCTTCTT ACAAGCGCAG CCGTTGCTGC
361 TATTTTTAAG ACTAGAGATG TGGCTAAAC TGAAGAAGGC GCAGCAACCA TGGAAGAAAA
421 TTCAACAGAT GTGATTACTG GAGGAGATGG AGATAGTGGT ATTGCTGCTG ATGTTGTCTC
481 TCTCGCTAGT GAGGGAGAGG GAGAAAATGG ATCTCTTTTG GAATCTATTG CAACAACACT
541 CATCAAGACT ACAATTGAAA ATCTTGTTAGA TGGTGGAGAA GAAACACAG AATTGTAAAA
601 TGTTTTTTGG TATACAAATA AAAGAATACA TAATTTAAAA AAAAA
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编号: C008

长度: 529 bp

碱基对组成: 205 A 84 C 109 G 131 T

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1 GCCCTTACCT CTCTTATCTG CATTTTCATC CAAGATGTTA GTGGATAACA TGTTGAAGAA
61 TAATTATGTC AAAGTGGAAA ATGTTAACAG AGAAAAATTG ATCTGGAAAG CATTTAGAGA
121 GATGCAAACG GAATCAGAGA TATGGAAAC TAGTGGGAGT AAAGCCGCAT CCGACAGGAA
181 TGTGAAGAAG GCCAAGCAAG ACTTGATACG GAACGCATCT ATAGGAAGAC TTATTGTCGA
241 ACCTGTAGGA AAGACCCCTA TTTCATCCAT AGCCTTATTC AGGTCTATGA AGAGGAGTAG
301 AAGCGAAGAT TTAAAGATGG GAAGCAATAA TAAGTACCGT CTCGCCAGGG ACACGAAAC
361 AGCTACACCA AGGAACCCCTC TAAGTTATAC TGGAAAGATT GTATTCTCTT TGGATGATTT
421 GAAAAATTTT AGTAAGGATT CTTATACTAC AATGAAAGTA TTTCTCTTAA CACCTTTAGA
481 TGGATAGAAC CAATAAAATG GAATTGAAAA TATAAAAAAA AAAAAAA
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编号: C009

长度: 1068 bp

001100

90

碱基对组成: 323 A 254 C 277 G 214 T

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1 CGTCAAGATG GTGTCGTCTA TTACCCACCT CTCTCTGTTG TTCGTCGTGG CTGTAGTAGC
61 TTCCGTCGTT TTTACAAC TG AAGGAGCTAG TGTGAGAGTG AAACGGTGTG CTGTTAGCCC
121 GTGCCCCGAC GTTATTGACC CCGACCACCG CTGCCAAGGG CGACTGTGCC GCAGGTCTAC
181 TCGAGGAGGT GACGACGACG ACGACGATGA CGATGGAGGA ACTTTCGATA CAGTAGGGTC
241 TGGTATACTT GGACGCAAAA AGCGTGCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
301 GTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GGATGAAGAA GAGGATGAGT TCTACCGCAA
361 CCGCAAAAAG CGTGCCGCAC CTCCACCTGA GGATGAAGAA GAGGATGAGT TCTACCGCAA
421 AAAGCGTGCC GCACCTCCAC CTGAGGATGA AGAAGAGGAT GAGTTCTACC GCAAAAAGCG
481 TGCCGCACCT CCACCTGAGG ATGAAGAAGA GGATGATTTC TACCGCAAAA AGCGTGCCGC
541 ACCTCCACCT GAGGATGAAG AAGAGGATGA TTTCTACCGC AAAAAGCGTG CCGCACCTCC
601 ACCTGAGGAT GAAGAAGAGG ATGATTCTA CCGCAAAAAG CGTGCCGCAC CTCCACCTGA
661 GGATGAAGAA GAGGATGAGT TCTACCGCAA AAAGCGTGCC GCACCTCCAC CTGAGGATGA
721 AGAAGAGGAT GATTCTACC GCAAAAAGCG TGCCGCACCT CCACCTGAGG ATGAAGAAGA
781 GGATGATTTC TACCGCAAAA AGCGTGCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
841 TTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGATTCTA
901 CCGCAAAAAG CGTTAAACTA CGCACGAAAG TGACGGTGGT TGAAGAATAG ACTAATATTG
961 TTGATATGTT AACCCCTTTT TTTCATGAAA TGTGTACACA CCTGCTATAT ATACGTGCAT
1021ATTTGAATAA GGAATAAAGT TTATCTGCAT CAAAAAATAA AAAAAAAA

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编号: C010

长度: 1103 bp

碱基对组成: 386 A 208 C 191 G 318 T

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1 CTATTTTAGG GTACTAGAAA ACGTTGTGAG AACCAATCAT GAGGTTTATC CCGATGTTGA
61 TAATTGCGCT TATCGCTGCA TTTGTTATTG CAGCTCTTCT TACTGCCAAT TCAAATTACC
121 TGGATCACAA TATCAATAAG GAACTAAATT TGACCCGTTT CCTTCAACTT CCGGGAACAT
181 TCACACCAGA AGATATAGCT CATAACAACA GAATTCTCCC TTCCAAGCTG AGTGTTTTAG
241 AAAGAGGGTC AATCATTTTA GCAGAAATGG ACAAGTACAA AAATGCACAA CCTACAGTAA
301 ATAATTCTCA AGAGAGGAGG AACATTTCTA CTCCTCAACA ACAACAACAG ACCACCCCTT
361 CATCCCAATC ATCTTCCCAA GTTGAACCTT AAATTCTATA AGAAAATGCT GATTTTGTGT
421 CCTGTATGTG ACGAGTCTCG CACCGACGAG AAAGAAGATT TTAACAACGA TGAGGAAGAA
481 AATATATTAA AGGAGGAAGA AGTTAGTGGA GGAGAAAAGG TTGTAAATAT CGTAGTAGGG
541 AGTATTAAGA TGATGAAACC TGGTTCAAAA ATCAAAACAA AGTACAGGCT CTACTCCCTC
601 CTTGCAAGTG CGATAGGGAG TAGAAAGAAA GCTGAAGAAT ATATTGAACG TCTATACAAT
661 TCCTTTTCTT CCATGACGTT GAATGAAGGA GGACGTCTGG CTTGAGCGAT TTATTGTCCA
721 TCCTACAACA ATAAAAGGAT AAAAAACAAT CGTTCTAGGC CTGTGAAGCT GATCCATGCC
781 TCCAGGGAAT TGTTATCTGA AACTACGGTG AGGGAGGAAA TACTACGGAA ATCTCCCGCT
841 TCTTCTTCTT CTTCTTCAAC GTCATCATCC ACTTCTTCGT TTTCTTCAAT TTTTGTGTT
901 GTACCTTCTA ATTGTACTTC TAAAACTGTA TGCGATTTTG TAAACACAT ACAGTATGAA
961 GAAGATATTA ACCGTTTAAAG GTATAACATA ATACATATAT CTGAAGAAA CTATGCTTCA
1021AGATTTTCTA AAATTAATAG ATTAACATA TGTATACAAG GTATAAGTAA GACAATAAAG
1081ATTCTATATT CCAAAAAAAA AAA

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编号: C011

长度: 1105 bp

碱基对组成: 375 A 167 C 264 G 299 T

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1 CTATTACAGG ATCACATGCA CATGCTCCTA GAGGGGGGGG GTGGCTGTGT CCTTGTATAA
61 AAAGCGAGGT TGGCACAGAC TATCAAACAT TCAGCCGTAA ACCATGGAGG AAGAAAGTCA
121 ACGAGTACAG AGGAGGATCG GAGTCCTCCC AGAAGAGGCT GCCTCCCAGA TCCTGAAAGA
181 CACCAAGTTA AGAGTATCAT ATCTGGGCGT GGGACATTGG GGATACTCTG TTTCAATTAT
241 AAAAAGTGCT CTCCAGAAAG GATGCAGGAG GAACGATGAG GATATAACTG CTTGGTCAAT
301 CAGGGAGGCT TATCTCTATT ACCATCTTGG ATTGAATTAC ATTGAAAACG TAAAACCTGC
361 TGCAAAATCA TTAAATACAA ATATGGTAAA CAGAATTAAA ATCATAGCTG TGGAGGATAC
421 CAGTCCTAGA AGTATGGTGG CTTCTAATGA GTGTGTGAGA ACTCTAGAAA AATATGAAAA
481 GGGGAATTTT AGGCAACCCA GTTACTTGTG GGATGCTGCC ATGAGGCTAG TTCACGCCCTC
541 CAGTTCTAGA GTGTGCTCCC ACATGAGAGC TTTGTGTTGG AAGGAAGAGG ACAGTGATAA
601 ATTAGGGGGT ATTTATTATG CTAATTTTAA TGAACCTGAA ACTCAGTGTG TTAGTGCAGT
661 TAATTTTCTT CCCATAGAAA GAATTAAACA CGTCTTCAGG GAGATTGAAA GTGTAAAATT
721 GGGGAAGAAA AGTGACAGT TATTAAATTT AAGAAGTGTA GCAGCTTACC ATGTGTTAAG
781 ATATTATGGG GATAAAGTGA AAGATACAAA TAAGAAACAT AGTGGACCAT TCAAGCGAAA
841 AGAGTTTGAG CAGTTTGGG GGTATGCTT TAAATTTGTT ACTCAGCACG TAAAACAGA
901 CCCTGAATTA CGTTGTATT TTAATGAGT GACATATGCC ATAAATTGGA GAAGGGATTT
961 TTTCTGCTCA AAAGGGTTCT TTAGAGAAGA AAGTCTATTC CTTACATCTA TTGTGGAATT
1021AATTATAGCC ATGTGCATAG GTGACCGTAA ACAGTTTGCC AAGATTCAGA AAAGGGATTT
1081AAAACGTTTC AAAAAAATAA AAAA

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001130

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编号: C012

长度: 650 bp

碱基对组成: 211 A 144 C 127 G 168 T

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1 CCCCTATCAG CTTGAGAAAT ATTGACCCAG AATCAGTCCC CGACACTCGA TTCCACTTTC
61 TGCTCATGAT GTGGCAGCGG CCAAATATCG ATGAACCTAA TCTTTCTGCT CTAACACAA
121 GTCAGCTAGA ATTGTTGCTT AGCAAGAACC AAAAATGGGA CAAACTCACC ACCAGAGCGT
181 TCTTCAATAT CGACAGGATC AATTTCCAGA TGGCAGACGC TATCATTAAG AACGTTTCTG
241 GAAGCGGCTT CCTAGATGGG AGTAAACTG CCTCTTCTTC TTCTCAGCG CTAACCTTT
301 TCCAAATCTT CAGTGGTGCT GAATGCACTG CAAAGCAGCT CCAAAGTATT CGCAAATTCA
361 TTGGAGAATC TATGCAGCAT GTACAAAAGG AATGGAGTAG TGCAGTAAAC AATGGGAACA
421 GAGGAGTAGA AAATTATGAC GGACTCAATG CTCAGTTCTC TGAAGAACTG TTCGAGCTGC
481 TCTACAAATT GATCATCGAG GAGGATATGC GGCCATCCAG CCTGATCGCC TCATCTGAAT
541 TCTTGAGCAA CTACGTCAAC GCCATGGATG AACTTCTTAT CAGAGCTAAT GCTTCTTAGA
601 TAGGGTTTTT ATGAAATAAA ACAAATATAA ATTATAAAAA AAAAAAAAAA
  
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编号: C013

长度: 524 bp

碱基对组成: 213 A 78 C 129 G 104 T

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1 GTACGAAACC ACTTCAAGAC GAGACTTTTC TCCCGCACCA GTGGCAATAG TATAACCTTT
61 GCAGTCCCTC CAGGAGAAAG GGAACCTAATG GAAATGGTCA GAGAGGTAAC AGGAACAGAC
121 ATCAAAATTT TCATGGATAA TGGAAAAGTA TATCAAAATG GTGCCGAAAT CAATGTGATT
181 GATCCGACAT CTAAGGAATA CAAAGAGTTA CTCAAAAGGG AAGAAAACCT GCCCGAAGAC
241 GAACGGAAGC GTTTGCAGCG AGAACGACGC ATGATTTTCA ATACGTCAAG GGCAATTTCC
301 ATGTATAATG AAGAACGTGG AGATGGAGGA AGTGGAGGAG AAACCTTCAGA AGATGGAGAT
361 GGAAACGGCA GCACCAGCAG TAAAGGAGAG AAAAGGAAAA GAGAAGAAAA TGAAGGGAAT
421 GAATATGTAG TCCTTTTGAA CAAGGCTTGT AAAGACATAA AAGTTTGCTA ACCATGCATT
481 TATTTTAAAT GGGTTTGGGA CAAAAAATAA AAAAAAATAA AAAAA
  
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编号: C014

长度: 715 bp

碱基对组成: 225 A 145 C 144 G 201 T

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1 CTCCAGTACG TCCAGAAATG ACTGGTCTTA TTGGTGCAAT CTCGCGGCCA GTTAGAGGTA
61 TTAGCCACTT GTTGAAACTG GGAGGTGTTT CTGCTGCTAA CGCAGCTATC CGCAAGCGCC
121 TCAACCTACC TACATCCAAC GGGAAAACAC TACCAGAACA TGGAAATCGTA CACAAATCAG
181 CCAAGACACT TTTGCTTGAT TCAGACTCTA TTAGCAACCT ATACAACACT GATCTTCAAG
241 ACGTTGTCTC TAACGCTAGG GATAACAACA ATTTGGGAAG AATTATGCAA TCTTTGGGAC
301 TTAAGGGGAA TAATGCAGGG GATTTGGTTT ATTCTGCTAG ACAACTGACG GACCTTATTA
361 CTGTACCAGA ATATGGAAAC AATCGCGATC TTACCAAGCG TCAAGCTATC CTTAAAATGC
421 TCATTTCTAA CCCTGAAATT CTAGAAAATG TTGCAGATAC CATTTACCTT ACAACAGGTA
481 AAAATGCTCT CGCACCGGTA TCTGCTCAGG AAATGGCTTG TGCGTCTCTG ACAGTCGGAG
541 GAAGTGGAGG AGGAAAACCTG TCATCAGACG ACAATGTTCA ATCCCTGAAC CGCCTTTTAT
601 TTCGGGTCTA GACTAGTGTA ATATTGTATG TTTAATTTAT TGTGTAACAA TTGGTTTATA
661 TTTGTATGTG ATTTTTTCGG ACAAATAAAA GAATTGGAAT AAAAAAATAA AAAAA
  
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编号: C015

长度: 1077 bp

碱基对组成: 338 A 192 C 209 G 338 T

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1 CTAGAATTGA GAGACGTAAA ATCAGTTTCC CGTTTAGAGG AGAATACTAA CACCTTTTTT
61 CATTTGTACA CTTCAATGAG TCTTTGTGCT AAGGCTGCAA CAAATTACGG AGAATCTTCT
121 TCTTCTTCTG CTACTATCAC TGAAGTAGAA GAAGACAATA GTTGTGATGC TGAGGAACAA
181 CAATTGCGCC GTAAGAAACC AGCAAATTAC GAGTCCATGT GCAATAAATT ACCATCACCT
241 CTTCAAATGT GCCAGATTAA TCCTAAATCT TTGAATACAA TGGCTATGAA TATTGCTCGT
301 TCTAGACAAG GCGCATGGGC TCAACTAAAT AGCATGCTCA ATTCAGTTTT ATTTGTAGAA
361 ATGCCCTTTG TTAAGACCAC AAGATTCTTT GGGAGAGATT TTAACATCAA GATGCACTCT
421 CCTGCCACAA AGAATAGGCC AGCCATCAAT TTTGACAATT GTATTGGTAT GAGTTTACCA
481 AATCCTGATA TGGGTGTTGT AGGATATGAT AAGGAAGGGG AATTAATAGG AGTTGGTTCT
541 TCACATAACAA AACATTTGTG TGATGCCTGG GGTTCATAGG ATGTTAGGGA TTTGATGTAT
601 TCTTGCCACC ATTTACACAT GTTGTTTGAA ATGGCTCTCC AGTATACTGA ATGTAAGAGG
661 AGACTTTCCT CATTAATAAC ACTAAAGAGT GATAAACTG GTGTTGATTA TGTGCTGTA
721 ATGTTAGCCT GTATGGTGTA CCAATTGATG GTTAGTAATC TGAAATACCC TGTGTTTTTG
781 TCCTCTTCAT CCCACAAGAG GGCAAAATACA GAGGATATTG CGGATGAGAA TCAAGTTTCT
841 TCACATCTG TTCCCATGTT TCTGGCAATG GTTGTGAATA AACCCTTGCA TGCTCTTAGA
901 CACTCTACCA ATTTAGCTCT TCCTAATGCT TCTCAAAAT CTGACCATTG TGATATTGTC
  
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961 AAGTACATTG TAATGAACCA ATGGGGTTTG AGACTTAACC CTGATTATCT GTGCCCCAAC
1021TGTGTAAAC ATGTTCTTTG ATCAAATAAA AGAATTGATG AATAAAAAAA AAAAAAA

编号: C016

长度: 724 bp

碱基对组成: 248 A 144 C 146 G 186 T

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1 CAACACGTAA AGGAAGAAGT TCCATCTAAA ACAAGAGAAA ATGGAATTTG GCAACCTAAC
61 AAACCTGGAC GTTGCAATTA TTGCAATCTT GTCCATTGCA ATCATTGCTC TAATCGTTAT
121 CATGGTTATA ATGATTGTAT TCAACACACG TGTGGAAGA AGCGTCGTCG CTAATTATGA
181 TCAGATGATG CGAGTCCCAA TTCAAAGAAG GGCAAAGGTA ATGTCAATTC GTGGAGAGAG
241 GTCCTACAAT ACTCCTCTTG GAAAGGTGGC CATGAAGAAT GGTCTCTCCG ATAAGGACAT
301 GAAGGATGTT TCTGCTGATC TTGTCATCTC TACCGTCACA GCCCCAAGGA CTGATCCCCG
361 TGGCACTGGG GCCGAGAACT CTAACATGAC TTTGAAGATC CTCAACAACA CTGGCGTCGA
421 TCTCTTGATC AACGACATTA CTGTTGCGCC AACTGTTATT GCAGGAAACA TTAAGGGAAA
481 TACTATGTCG AACACTTACT TCTCGAGCAA GGACATTAA TCTTCATCTT CAAAAATTAC
541 CCTCATTGAC GTGTGCAGCA AATTTGAAGA CGGCGCAGCC TTCGAAGCTA CAATGAACAT
601 TGGATTACCC TCCAAGAATG TGATCGATAT CAAGGACGAA ATCAAGAAGA AGTAAAGTGG
661 GAATTGTACA AATATAAAGG TTTTGTGTTGA ATAAAAATAC AAGTAATTTT AAAAAAAAAA
721 AAAA

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编号: C017

长度: 864 bp

碱基对组成: 300 A 211 C 160 G 193 T

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1 CTTCCAACCG ATTCAGTCAG CTGAGGGGCA ACGAGGAGAT GGTGGGGAC TATTCAAGAT
61 GGACAACTGT CAAGAACAGG AGGAACAGAC AGCAACAGTA TTCCCATAGT TTCCGTCCCC
121 AACACAACA ACAACATCAA AAAAGAACAT CAACCAATTC TCCTCCTGCT CCACCTCCCTC
181 CATTCCCCAT CATTAGTTGG GGAGCCCTCG GCAGCTACTC AATGTATCGA CTGGATGACC
241 AGTGCAGAAA TTGCGATGAA ACTGGCTATT ACAATTTCCA CTCTTATGAT AGAAAGAGGG
301 AAAGAGTTCTG CTCATTAAAC AACACTCCAA GTGAAGGCAT GTGGCGGCGC ACAAGTAGAT
361 CTTCCCCCTT CCTTAATAAG AAGAAGGACG TTGACGAAGC TCCACCTCCT CAATCAAACC
421 AACACATGTA CCCCCCTCA AAGTACAGTT TCCGTGAATA TACTCCTTCA TCAAAGCTTG
481 TGAATTGGCG AGACCCCTCA CAAGAAAAAC AGGACAAGAT CTTACAAGAG GAAGAAGCTC
541 GCGCCCCCTAC ACCCACTCCC CAAGAAAAGG AACCAGAAGT AGAAACTAAA GATGATGTTG
601 TCATCGAGGA AGAAACTGCA CCAGAACCAG AACCAGAACC AGCCCCAGTT CCAGACCCAG
661 ATATTCCTCGC AATAACTGCA ACTACTACTA CTACTACAGT TGCAACACGT CACGACGATT
721 CTTCTACAGT ATTTCTCAGA AATGTTATTC TGAGTATCGT GTTTTGGTTT CTGGGTGTTT
781 ATTCTGCATT ATTTGCAAAA TGTATTAGAT CTAAGAAGGA ATAAATAAAA TGGTATATGA
841 AATTTAAAAA AAAAAAAAAA AAAA

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编号: C018

长度: 513 bp

碱基对组成: 162 A 119 C 103 G 129 T

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1 CGATAAAACA ACAGGTCTTT ACGTTACATT GACGTACCTC TTCATCAAAC AGAAAAAAAA
61 TGGCCACCAC GACTAACACT CTTCCTTTCT GCAGGACCGG AGCCCAGGCC GCTGGCCCTT
121 CTTACACCAT GGAAGATCTT GAAGGCTCCA TGTCTATGGC TCGCATGGGT CTCTTTTGA
181 TCGTTGCTAT CTCAATTGGT ATCCTCGTCC TGGCCGTCAT GAATGTATGG ATGGGACCAA
241 AGAAGGACAG CGATCCTGAC ACTGATAAGG ACACCGATGA TGATGACGAC ACTGCCAACG
301 ATAACGATGA TGAGGACAAA TATAAGAACA GGACCAGGGA TATGATGCTT CTGGCTGGGT
361 CCGCTCTTCT GTTCCTCGTT TCCGCCGCCA CCGTTTTTAT GTCTTACCCC AAGAGGAGGC
421 AGTAAAAATA TAGAAAACAC AACATCAGGG ACAAAAATTA TAATTAAAC ACCTTTTATT
481 ATAAATATAA ATTTATTTGA AAACCTAAAA AAA

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编号: C019

长度: 129 bp

碱基对组成: 50 A 32 C 14 G 33 T

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1 AGCAGCAGTC CTCCTCCTTC TTCTCCTCCT GCACATAAAA AATCACGTCT TCCGGATGAA
61 GGCGAAAAAT GTACACTCTG TTAATTTTTT CAAACAATAA ACTAACCACC TTGTAAAAAA
121 AAAAAAAAAA

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编号: C020

长度: 234 bp

碱基对组成: 113 A 37 C 32 G 52 T

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1 ACAACCTCCA CATCTCCTTC TAATTCTAAC ACACAAGAAA AGGATAAAAA TAAATAAAT

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61 ATTGATGCTA ACAAATTTA TTCAAGAGGT CACAAACATG TACCAATATC AATTGTAAAA
121 AGCACGTTAA ACAAAGCGTT AAAAATAGCA GGTATGTCTG CTATGAGCAA AGAGCAAGTG
181 TTAACAATGT ACCAATTAAT AAACCTTAGG TAGGAAAGAG AAAAAAAAAA AAAA

编号: C021 长度: 587 bp
碱基对组成: 220 A 115 C 102 G 150 T
1 ACTTGAGATT AGACACTATG TCATCTCTAT GGGAGGTGCT GCAGTGACAA AGATTTCGGA
61 TGAAGATTG GAACAATTCA CGCCTGTAAG AGGTGCTGTC TCTGTCACTA CAGCACCTAA
121 TGATAAGCTA CCTGTAGGGG CACATCAGAC ATGGAAGGAT GAACAAACAC TAAAAACAAA
181 CACTAAACGT AATAGTCTAT ATGACTCTTA CAATTCAAAA AGGAATAATA GGGATAATAA
241 TAAAAATAAA AATCGTTTCAT TAAACTATC AGATTTTAAT TGGAGAACAC CCAATATCTC
301 TATTCAAGAA TTTAATGCAA ATAAAGATGA TGTTAACAAG AAGAGGTACG CAGAAGTCGT
361 GGCCTCAGCT GCTCCAAAGT CACCTTCACC AACGAGCAGC AGCAGCAGCA ACAGCAACAG
421 CAGCAGCCCT CCTCTTTCAC CGCTCTCACC AACAGTGAAG AATAGTAATA ATAAACCATT
481 GTATATTCCCT CCCCATAAAA GAATGACCAC TACTGCTGTT TGACCAATTT ATGGGTTATT
541 TTATAATGTT GTGTGATATT TTATACAATA AAAATATATA AGAAAAAC

编号: C022 长度: 1060 bp
碱基对组成: 270 A 235 C 300 G 255 T
1 AATCAATTAT TTTTATTATT GAATTTACAA TGTCTACAGT ATACTGCAAC AAACCTTCCC
61 TTTAATCGGT GTTAACCTTC CCAATCTTTA AATGCTGAGG ATGCATTATG AAGTCTACGA
121 CGAAGGACAC TCGACCACAC ACGTAGCTCC ATCCTCGCAC TCCCGCGTTA CTCTACTGAA
181 GACCTGGTTG TCGGGGCGA GGAAGTTCGA CATGGTGGGG GCGGTGCACA GGTAGAACCT
241 GTGGCAGTCG GTGGGGTCCG GCACGCGTTC GGAGTCTGG GTGCAGTGAG GCTCGCAGAT
301 GTTGCACTAG TTGTAGCAGA GGGTGTCTG GTTCTGACAC TTTCCCGTCA AGTAATCGAA
361 GTTAATGTTA TGAGTTGGGC ATTCTTCCCC GAGCAAGTTG TTATTCTGCA GGCAGACGTA
421 GTACCGGTAG CACTTGGTCG GGTGAGGCGT GAGCTCTCCT GGACTGCTGC AATGTGGCTC
481 GCACGGGTTG CACAGGCGAG AGCAGAAGTC GCTCGGAGCT CCGGCTATGG GGTGCGAGCG
541 AGGCGAGGTG TGGTGCTCGT TGAAGTAGTG GCGGTCGGGA CAGTCCACGG TTCAGACGGT
601 AATAAGATGC CGTCGCCAGT AACGTCGAGG CAGACGTAAGT ACCTGGTGCA GTCGGTGGGG
661 TCCCGCACTT TGGTTCCGGG GTCCACGTCC GTGCAGTCCG GGGCACAGAG CTGCACATTC
721 GGAGACACCG CGATGAAGAG GAAAAGGAGG AGGGAGCACG CGTGGTCAAA CAGATACCAG
781 AAATCATGTC TGATATGACC AGAAACATCA TCGTCGGCTT GGCCGTTGTC GTCATCGCAT
841 TGAGCATGGT CGCTTTCATG CTTTCTGTTA CTCCTGCACT TACCGGATTC CTCCTAGGTT
901 TGGGTGTATC AGCACTAGGA GTTACACTCT TTGGATGTCC CACTATGAAA TCTCCAGGGG
961 GAGGAAATGC TACAATCAAC CCCGTGGCAT AAAAAGGTGT TAAAAAAA TCAATAAATT
1021 TGGTAAATAA TAAAAAAA AAAAAAAA AAAAAAAA

编号: C023 长度: 650 bp
碱基对组成: 250 A 116 C 130 G 154 T
1 GGAGGATTAA TTTAAACCG CCAAGTTGTT GGACAAGAAC AAGCACCACC AATAAACACG
61 TCGTCGGATA CTAATAAAT AAGACGTGAT GCAAATATTG AACCAATAAT AGGGACGCCT
121 TATAGTGTA TTAAGGCAAG TAAAGGAGTA TCAATTTTCA TACTGGATGA TTTCAATGAG
181 GATAGTCCAG AAGATTTTCG CCTTAAACT TCCATCATCA ATGATGCCAT ACGAGAAATA
241 GGGCAACGCA TGACTTATAC AAGACCTATA TTTGATCATC AAACACAGAA AAATATACAC
301 TACAGTTTCA CTAAAATTAT TCTCGAAGGA TCAGATTTAA AGAATGGACA ACGTTCAGGA
361 CAATCTTGGG CTCCTTCTTC ATCATCCTTG ACTCTGGCCT CCGATGGAA TCTACCTTCT
421 CTGGAGCTTT TATATAGAGA ACTTGCCACA AAACAAGTAG AGAAGGAAGA AGAAGAAAAG
481 AGCGAAAGGG AAGAAGATAA AGGACAAAAA CTTAATGAAA AATTATCATT TGTCGTGAAT
541 AAAGCTATCG GAACTATCCA ACAACAACAT CAATATTCTG AAAGGGGAGG AGGAATGAAG
601 AGGTATCAGC AACACTCTGC TGATCAAGCT AGTAATGGTG GCATAGATGA

编号: C024 长度: 365 bp
碱基对组成: 153 A 53 C 52 G 107 T
1 ATACGCTACA AACAAAACAG AGGACTGTTT TTGTAGTTTA CTCCCCAACT GTTATAATGT
61 TAAAAAGGCA TCAGACTATT GGATAAGCTC TGCAAGCACA GCTAAGGAAA AAACGTACTT
121 GTTTATTGCT AATAAAAATG ATGAAAACAG TTTCTTCTAT AACTTTGAGG AAGGTGTTGA
181 AGAAATTGAC CTGGACATTT TTATGACAAT AGATTGTGCA CCTAATCTTC CTTTCATTAA
241 AAATTTACCA AGACCTATTA CAGATAATAA TATAATGGTT GCACTGTCAT AACACTAAAA
301 ATATTGTATC ACATACAAAA AAAGGTATAA ATAAATTGCG ATGATATATA AAAAAAAAAA

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361 AAAAA

编号: C025 长度: 624 bp
碱基对组成: 222 A 115 C 111 G 176 T
1 GTTTTCTTTA TTCTAGCAAT AACTGCCTTA GCTGTCGCTC TCTATATACG ACATGCTTCT
61 AAACAAGAAA AATACTCCAC TTCTCATATC AATGAACAAT TACTGCCAA ACAGTTGCCA
121 GTCACCTACT TGTCAAAAAC GGGTAAATTA AAGGACATGC ACTTGACCCA TTCCGATTTT
181 ATGGCATATG TTGATGTGCA CAATAGAACA AAAACTCTGA AGCACCCCAT GTGTACTGAC
241 GAGGCTGGCT GGGCCCACTT TTGCCTGCTG GCTTCTGCTG AAGCTTATCG TCGCATCCGT
301 TATGGGAGAG GAGAATTTGG ACCAGAAAAA CATTCCCTAG CTGAAACTAT CCAATCGACA
361 GTACAAGATA TGTCGGAGCC ATATATAACC CACATCTTCA AGAAGAACAC GGATGTTGAT
421 GGACACGGAA TGCAATCTGT TTTGGAGAAG AATAGGAATA AAATCAGAAT GGGTGATGGA
481 AAAACGTCAT CAGAAACTTA TAATCTTAGT GATAAGTCTA TATCTATTGT TGGTGATAG
541 GAATAAAACA ATGCAATTTT TATACATGTA TAATCTTTAT TGTTACTAAA ATAAAAATAT
601 ATAAATATA AAAAAAAAAA AAAA

编号: C026 长度: 679 bp
碱基对组成: 244 A 164 C 110 G 161 T
1 TTACGATCTG GCCAATGTTA CCCCTCAAGT CACAAAACCTG GTAACATTTT CTGGTCCAAC
61 CTATGCTAGT CCGCCTACAC CCAGGCCAGT TGCCAATACA CCTCAACAAC AACCAACAAG
121 TACAAATAAA GAGGAAGAAA GTGTCTATAT GCCAATGTCG AGCTGCTCGT CGTCATTTTC
181 TTCTGACAAT AGTCTTCCTC TGCCAACACC GCCGCCATCT CCACCTAGAA GCAATGGCGG
241 TGATTACGTG TCATATGTAA ACGGACGACA TCTGAAGCTT CCTTCAAACC CACCTTCTCC
301 CATCTTCAAT ATCAAGAATG AGGAGGGAGA GGATGATAAT GTGGAAGAAC ATGTCTACGA
361 ATACGTGCCA GAAGTACCTC AACAACTCTC ATCTATCCAG AAGTGTATCC AGGAATTGAA
421 GGAGATGAAA CACAAGAAAA ACACCCTAAC CAGGAGCAGT AGTAACAACA ACAACAATGC
481 TCCACGTATA ACCCAAGTTA CGTTTAAGAA ATTCCCACCT AACAAATAATA ACATGTGGGA
541 GAATCATGTG TATGGAAAAA CTACAATTGT GTCTTCCACA CCTTCTCCTA CCTTTATTCC
601 TTCACCTAAA AGTATCATAA GGAATTGTC ATTTAAGAGG AAACAATAAA ATATTATATA
661 AATTAAAAAA AAAAAAAAAA

编号: C027 长度: 537 bp
碱基对组成: 197 A 62 C 110 G 168 T
1 AAAATTTGAA GATGTACATT ATATAGATAT CAATTTTCAG TCCTTTGTAA GAGAACAGAT
61 AGGTTTAAAG GTATTAGGTA AAAATGATGT CCAAAAGAAG AAGAAGGAAG AAACCCCTTT
121 CTTTGCACCC TTTAATAAAT CTAAATAGG AGGTGAATGC ATAGAAGATT TAAAGTATGA
181 TTCTGAGTCT GTTTCTATTA TAAGAGATGT GTTTAATTTA TTGGGTGAAA TGCCTACTGA
241 GGATGTAAG ACATCAAGAA GTTGTATAAA CCCTTCCAC AATGATACGA ATCCTAGTAT
301 GAGGTTAGTG TTTCGTCCCA TGTACTGGAG AAATTCTAAG CTGGTCATGG ATAAATTATC
361 CAAGGAACAA GACTCGGCTT TGATTGAAAA GTATATGGGA GGAGAACATC AACATTGTAT
421 CATTGGAGGG AGAAATGTAT TATTGTATTG TATAACTGCA CTATGTTTTA GCTCTGATTG
481 TGGATTTAAA AAGATGTTAA CTAATGATGA AATAAAACAA TTGATATGGT AAAAAA

编号: C028 长度: 597 bp
碱基对组成: 196 A 127 C 126 G 148 T
1 AAAATACTCC TCAACTTCCA ACAAGAATGG GCTCTGCTAA CTTGAACGAC CGAACTCTAC
61 TCGTGGAGGA AGGGCAAGTA AACGACTACG GGTCTACCAA CAAGAAACAA CCAGTGTGCT
121 GTCACATTTG CTATCTAGGA AGAGGAGGAA GAATTGCATG TGTATCGCA TCTGTTCTGG
181 GCTGCGTCCT CCTGCTGGTG ACTGTCATGA CTTTGTGAT TGTGGTACTG GGAAGTGCAC
241 CAGTTAATTG TGATGTGAGC CCACAGAGCT ACTCGCCGCC GCCGCAGCCG CCGGTGCGAT
301 TTCATCCTTA CCATTCTTCT TCCACAACCA CCACTACTTC CACTACTACT ACTACTACAC
361 CAACTCCACC AGATACTAAA AAAGTTGACG ACGACTATGA TGACGACGTC AATATTGGAG
421 GGCAATCAGT TACTGTGAAT AATGGAGGTG TTTTCATCAA TGGAAGAAAA CTCTCAAAAG
481 AAGAAGAAAA AGCAATGGGT ATCAATACAG ATAATGGAGG ATTTGTTTGG AAGAATGGTG
541 TTTTTTCTCA ATATGGCAAA AAATAAAATA TGGTATATTA AAAAAAAAAA AAAAAA

编号: C029 长度: 1212 bp
碱基对组成: 424 A 187 C 277 G 324 T

1 CGAAGAAGCA GAAGAAGAGG ACGAAGAAAA TGGTGAAGAAC GAAGAGAACA AAGGTGACTG
61 TGTCACGGAA AAAAAGATCC CTGGACGAAG CACTAACAAG GATGTTGGTG AAGAACTAA
121 AACACGCGAG AAAACGGAGG GAGAAAGAAA GGGCTCTAAG ACGGCAAAGG GAAAGACGGA
181 GGAAATTGCT AGTTCGTTGA GTAAATGTGG GAAGAAAGAT GCGAGAGATG TCATTCTTGA
241 CCGTTTACTA AAAGCAACAC ATTCTTCTTG CACCAACAAT GAAGAGAGAA CCAGAGTCTT
301 ACAACAATAT AGCAATTGTA CATTATCTTC CTATATAACT TCAGTCATGA AATTGGACCA
361 AAGAGTAGCA GACCAAATGG AAAATTTAAT ATCTCAATTG GATCAAATAC GTAATCTCTC
421 CAACAAGAAG AGGCAAGAAA AGGGAGGGCC TTTTAAGTCT GAATTGGACG CCATGGTTGC
481 TGCAGTTAAG GTTAAGTTTT TCCCAGTTT AGATGCGTCT AGAAAATTGA CTCAAGACCA
541 TTGGAAAAAG TGCCCCGTGT CCATCCCAGA AACGCGTGAA GAAAAACCAT TAATGGGTGT
601 GCCTTTTGAA GTTGCACTCA ATTCTCTAAT AGGAAAACAC AAGTGCACAG ATACATGCGA
661 CATGGCTTGT TGTCAATCAT TGTATTTTGT CCTCTTGTA ACCTAGCTT TAAAATTTGA
721 GAACGAAAGA TTGGCCCGGC AAATTGGCCT AGATGACTCT GTAGATTGA TGGCTGAGAT
781 GTTGTTCGGA GGGGATAAAC TATTGGCCCA GGAAGTGTTA AAAAGGGTAA AAGATGCTCA
841 AGATAGAAAG TTGGTGAAAT CTTTATTGCC TTTAAATTAT AACCATGACA CAAATACAAT
901 TATATTTTTG TTTGAGTCTT TAAGGTTTGC TCAGAAACCT GTAGCTGGTA TGAGTGTTAG
961 TGAAATAAAA GACGCTGTTA GAGGTCTGGC CTTTCTACC ACTACAGGTA CTGTGTGGAA
1021TTATACTGAT GAAAGATTTT TTGGACCATT GTATAACATG GATGAACITT GTAACGAACG
1081TGTCATGGA AATTGTAAAT TGTCCTTTAT AACTGGTATT TATCATACGG CAGCAGTAGA
1141ATTGGCTGCT GCATGCTAT CTTGTGTTTT GTAAGAAATG ATAATAAAAA ACATGTATAA
1201TTTCAAAAAA AA

编号: C030

长度: 403 bp

碱基对组成:

142 A 87 C 69 G 105 T

1 TGAAGGAAC GTAAAGCGTT GGTATAAAAG GTGAGCGTGG ATGTACCTGA GCCACATTAG
61 ACAAAACCTT TTGGTTGAAG AAAGACGTGC TCTCACCTTC AAAATGTACC ATCATAACAA
121 CAATAATCAG CACTCCTTTG TGAATTGCCA GTGCAGGCGA ACTTCTTCCT CCATCAACTG
181 TTCAAGCTGT TCCCGTGAAA CTTTCAACTC AGTAAAGGCT ATCCAGTACT TCAACAAAAC
241 TAGCAGAAAT AATACTGCAC ATCATTTCAG ATGCGCGGCT TCAAAGGATC GCAACTATTC
301 TTCTTTCGAG TATGCTGAAA CGGCCTTGCC TGCTCACAAT ATATCTCAGT GGTGATTTCT
361 ACGACTAAAT AAAATATAAC AAACCTTTAA AAAAAAAAAA AAA

编号: C031

长度: 548 bp

碱基对组成:

189 A 75 C 132 G 152 T

1 GTTCAAATTA TTGTACAATG AGAGATGAGG GTGGTTTCAG GCCCCGTTTG ATCATGTCTG
61 CCTACGGGCC AACATCTTAC CCTATCATCT TCAATACTTT ATATGATCAA TTCAATGTGC
121 AATATTATCC ATGTGTTTCT GGAGTTGTTT TATCTTTTAT TGGCGATGAT CAGTTAGCAC
181 CAGAACCAGA ATCATTAGTG GACATTGTTG TACGTTCTAT AAAAAATCCG TCTATTAGAA
241 TTTTTTCTGG TGATGGTGAA ACAGTATACC AGGATGGACG TAGGGTCGAT GTTGTGGTG
301 AGGGAAGAGAA TCAGAAGTTT AACCGAGAAG AGCGCACCAT TTTAAATGTA TTGAGGATAA
361 TTAAAGCATA TAATGAAGAA CGAATTAAG AAGATGAAGA TGAAGAGGAA GAAGAGGAGG
421 AAGAAGAGGA ACAACAAACA GCAGCAACAG TGACAGTAGA AAGTGATTGG GATCTCTCAC
481 TAGAGAGGGG GGAGAATTGG GTGTAGTAAC TTATTTGAGC AATAAAAAATA CAACTGAATT
541 TTAAAAAA

编号: C032

长度: 812 bp

碱基对组成:

242 A 187 C 172 G 211 T

1 CTCTGTGGTT TCACGAGGTT GTCATACCA AAGGTAACCT TTTTTTTTGT CCTCGCCGAC
61 AAAACGACAT CTTAATAACC AAGCAACGTT CGATAAAGAA AAAAATCGT CATGGATCTT
121 TCTTTCACTC TTTCGGTCGT GTCGGCCATC CTCGCCATCA CTGCTGTGAT TGCTGTATTT
181 ATTGTGATTT TTAGGTATCA CAACACTGTG ACCAAGACCA TCGAAACCCA CACAGACAAT
241 ATCGAGACAA ACATGGATGA AAACCTCCGC ATTCTGTGTA CTGCTGAGGT TGGATCAGGC
301 TACTTCAAGA TGAATGATGT GTCCTTTGAC AGCGACACCT TGGGCAAAAT CAAGATCCGC
361 AATGGAAAGT CTGATGCACA GATGAAGGAA GAAGATGCGG ATCTTGTCAT CACTCCCGTG
421 GAGGGCCGAG CACTCGAAGT GACTGTGGGG CAGAATCTCA CCTTTGAGGG AACATTCAAG
481 GTGTGGAACA ACACATCAAG AAAGATCAAC ATCACTGGTA TGCAGATGGT GCCAAAGATT
541 AACCACATCA AGGCCTTTGT CGGTAGCTCC AACACCTCCT CCTTCACCCC CGTCTCTATT
601 GATGAGGATG AAGTTGGCAC CTTTGTGTGT GGTACCACCT TTGGCGCACC AATTGCAGCT
661 ACCGCCGGTG GAAATCTTTT CGACATGTAC GTGCACGTCA CCTACTCTGG CACTGAGACC
721 GAGTAAATAA ATCGTGCTTT TTTATATAGA TAGGGAATTT TAATATTACA ACAATAAGAA
781 AATAAAACAA TTGAGGAAAT TTAATAAAAA AA

001150

8/

编号: C033

长度: 625 bp

碱基对组成: 252 A 100 C 139 G 134 T

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1 AAGTAAAAAT GGAACAAGAA GAACTGGTAG AGGACTCGTC AAGTAACAAG CGCCCCAGAA
61 TTAAGGAAGA GAAGGAGGAA GAACACAAAG AAACACATCA CCTCTCCCTC CCATGTAAAG
121 AAGAAGAAGA CGATGGTGAA GAAGAGGAAT ATGAGGAAGA GGAGGATGAG GAAGAATATG
181 AAGACAGAGT GGACGACGAC ACTGCAGAGA AAATGGAAAA TCTTTTGGTG CAACTGGACA
241 ATACTACCAA AAACATCAAA CTGAAAAACC CCCTAAGGGA ACATGACATG GCAGTTTCAC
301 ACTATGAGCA TGAATTTGAG GTACAAAATA CTGTCAATTT TAGTTTTGGA GTACTATCTG
361 ATATTGGGTT CCTGATCAAC CGTGAAGCCG TTTCTAGGTG GGGTAATACA CCCCACCAA
421 AAGAGTTTGG CGACATGGAG ATTGGATCTC TTACAGTTAA CCAGATGCTC CACAAGTGTG
481 ATAATTTTGT ACAGGCTGTA GTACAGAAAG TGAAGGAAGA TATAACCCCT TCTATTGAAG
541 TTACAATAGA TAGTTTGATT GATGATCCTT GTTGGTAAAA AACAAATAAA ATATACCTAA
601 AAATTAAAAA AAAAAAAAAA AAAAA

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编号: C034

长度: 476 bp

碱基对组成: 147 A 94 C 107 G 128 T

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1 ATGATAAGAG TTTCTGGTCC TCTTTCGACA AGTCTGTGAA GCCTTATTGT GAGAGCAAGA
61 AGAGTGCTCT TATTAATGCT CTATGTGAAG ATAATGTGAC TGCCAAGGTA TACGCTACTG
121 TCCATACACT GGCTATTCCA TTCTGTGAAT CTATGCCCAT TAACCACATT AATAACACTA
181 CTCCTTATGG AAGCTACAAG ACCTTCAGAA TTAGTTTGCC AGGGAACCTT TCTGGGCAAC
241 ATAACGACAT CAACAACAAT TGGAGATCTG ACATGTACAC TAAGATGGTT GAAAATCTTC
301 TAAAGAGGGA AGTTGTTGAG AACAGACAC ACAGCCGCAG ATACGTTTCG AACCTTATTG
361 TTGACGGAGG CGTGGGAGAA AATAGTGGCA ACTACTTGAA GGTGCACGAG AATAATGAGG
421 ATATTTTTGG AAGCATTGAA GCGAATTCAA TGTCTGCCAA GACTGCTGCT GCCGCC

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编号: C035

长度: 962 bp

碱基对组成: 360 A 156 C 187 G 259 T

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1 TTCGTCTTCT GAAACTCCTA AGACTTCCAC CGATACTGGG GAAGAAAGGA TTAAAGACAT
61 TGTAATGCTC CTAGATAATA ATGGCGAGTG GTTGTCTTCC TATATTGATC CGATTATCAA
121 TAATCACATC TCACGAAAAA CGGCAGAAAC TGTCCAAAAA ATCAACCAAG AAGTTGATGA
181 ACGGTACGAT AGAAAAATAG CCGACAAAAT CAACGAAATA AAATCATCCA TCTTTACAAG
241 TGCTCAGACT ATGTATGACC AATATGCAAT AGACACATTT CAAGAAGGAA AAGGAGCCAA
301 CGGGACTGGA CCAGTCATGG GGCCAGTGAA CACGGTTATC GATACAACTT TAAATAAAAT
361 GAGGGGAAAT ATGCTCGAAT ACGCTGAAGA TATGTGGGAC GGAGATGACT GGAACGATT
421 TTCCAGTTCT ATGACAACGC TTGAATTTGA TCTAAGTTAC TCTGATTTAA CTATGATGCG
481 TGGTCTTGAC GGGTATTTTG CATTCCCTTT CCGTGGAAAC AAAAAGATAA AGATGGACGG
541 TTCAAGAAAG AAAGAAGACC CAATTAATTG TATCATTTCA GTAACATATC CAAACAAAGT
601 AGGGGATGAG TGGGAAGAGG GTAAAGAACG TGAAGTGAAT TTTAACCTAG AAAGAGTAGA
661 CGACTATGAA AGAGATATCC ATGTTTCAAT TTTGTGCATG TTACATGCAC AACTTGATAA
721 TTTCGAACAA GCATTAGGAG AAAATGCAAA CTCTTTTTAT TTTAAAAAGG GGCAAAGAGT
781 CATGTTCTTA CCCAAGAAAT CTAAACTGTT CAATAGACCT ACTGTAGAAG ATTCTGATAT
841 GTTTTCTATA ATATTCCAC CTGCATCTGA CCAAGATTTT GCAGATGATA TTTATTATCG
901 AATAATTGTA ACATGTTTAT AATAAAATTT GTTGAAATAA AATACAGTAA TACAAAAAAA
961 AA

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编号: C036

长度: 335 bp

碱基对组成: 127 A 70 C 68 G 70 T

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1 CGAGAACAAA AGATTGTTGT CTAGGAACAA AGAAACATTA AAAATGGTTG CCCGAAGCTC
61 CAAGACCAAA TCCCGCCGTG GAAGCAAGAA GAGGTCCACC ACTGCTGGAC GCATCTCCAA
121 GCGGAGGAGC CCATCAATGA AGAAGCGTGC AGGAAAGAAG AGCTCCACTG TCCGTCGCCC
181 TTCCTCAAAG AGCGGAAAGA AGTCTGGAGC CCGCAAGTCA AGGCGTTAAT TCTTCCCTGT
241 ACAACAATA TGTTATTTAA TTGATTTTTT TTCTTCTGAA TAATTGGAAA TAATAAAACA
301 TCCATTGAAA CTTAAAAAAA AAAAAAAAAA AAAAA

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编号: C037

长度: 225 bp

碱基对组成: 78 A 52 C 43 G 52 T

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1 GGAGCTCTGT CATTTCTGGT GCAATCTGAC ATTGGCTCGA CCCAGCGGTC CACCCTCCAA

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99.11.30

97

61 ACTTGACATC AGACCGACCC AGCGGTCCAC CCTCTAACT CGAGCGACCC AGAAAAATTT
121 TTGAAAAGTT TTTGAGATGG AGGAAGAGTA AAATTCCCTA GTGTAAACAG TACCAAGAAG
181 ACCAATAAAT TTAGTGGTAA TAAAACTACA CATATGATTA AAAAA

说明书

对虾白斑杆状病毒基因组DNA序列及cDNA序列

本发明涉及我国、东南亚和其他国家发生的对虾爆发性流行病的主要病原—白斑杆状病毒（简称“WSBV”）基因组DNA全序列的测定和对虾白斑杆状病毒cDNA表达序列标记（EST）的测定。

国内外有关对虾杆状病毒基因组DNA序列测定的报道不多。迄今为止，已申请专利、发表文章和存入公开基因文库中的序列仅有六项，测定的序列从420bp到2,424bp不等，均为小片段DNA。韩国的J.S. Kim等分别测定了2,424bp（wsu 92007, 1997）和420bp（wsu 89843, 1997）；日本的K. Mitsuo等测定了1,447bp（PN JP 1997201196-A/2）和1,461bp（PN JP 1997201196-A/1）两个DNA片段；台湾大学罗初芳等测得1,461bp（PMU50923, 1996）；美国L.M. Nunan等在J. Virological Methods [1997 (63): 193—201页] 上发表了868bp，其他尚未见报道。上述已测得的序列总共不足10kb，且为DNA片段随机测定，未经系统分析，也无法确定其功能。由于对虾白斑杆状病毒基因组DNA超出300kb，因此，对基因组全序列及其完整结构的分析、表达序列的测定及其功能预测均为全新科研成果，为此特申请本专利。

上述白斑杆状病毒(White Spot Baculiform Virus, WSBV)，国际上尚无统一名称，另外的名称有：“对虾白斑杆状病毒(PWSBV)”，“白斑杆状病毒(White Spot Baculiform Virus, WSBV)”，“白斑综合症病毒”或“白斑综合症相关杆状病毒(WSBV)”，“白斑综合症病毒 (WSSV)”，“白斑病毒(WSV)”，“白斑病病毒(WSDV)”，“日本对虾杆状核型病毒(RV-PJ)”，“皮下及造血组织坏死杆状病毒(HHNBV)”，“淋巴细胞核型杆状病毒(LNBV)”等。

本发明的目的在于测定WSBV的基因组DNA全序列，获得表达序列标记并通过生物信息分析处理，为进一步研究WSBV的复制、表达、增殖和感染机理奠定基础。根据已知序列建立早期、快速的病毒感染诊断方法，发展基因工程防治技术，构建转基因抗病毒对虾，开发抗病饲料，重组酶类和其他病毒特殊功能蛋白进行开发利用等，从而达到健康养殖对虾、培育抗病对虾新品种、提高经济效益的目的。另外，WSBV是第一个进行基因组DNA和cDNA序列测定的海洋无脊椎动物病毒，为研究其它海洋无脊椎动物病原体提供了先导模型和经验。

本发明中使用的WSBV基因组DNA是从感染病毒的病虾组织提取纯化的。由于体外培养的对虾细胞系尚未建立，研究人员无法获得病毒感染的合适材料，只能从感染病毒的对虾组织里分离病毒。但是，对虾组织成分极为复杂，又含有丰富的水解酶类，要获得纯化且完整的病毒颗粒难度很大，这就是国内外均未见到获得完整对虾病毒DNA的有关报道，也没有相关专利的原因之一。本发明是利用发明者研究成功的分离对虾白斑杆状病毒的方法 [发表在1997年J. Virological Methods (67): 1-4页]，从感染白斑杆状病毒的对虾组织中分离、提取和纯化完整的病毒基因组DNA并对此测序。本专利申请的内容包括以下几方面工作：

一、通过构建WSBV的基因组DNA文库，测得WSBV全DNA序列，确定WSBV是环状双链DNA病毒。基因组大小为305,108bp。

用以下两种方法构建WSBV的基因组DNA文库：

1. 用随机克隆（“Shotgun”，即“鸟枪法”）的方法，以超声波断裂基因组DNA，取0.8—2kb左右的DNA片段，克隆到pUC18载体，以DH5 α 为宿主菌，构建随机克隆DNA文库后自动测序，共测定4,295个序列。
2. 用Sau3A1不完全酶切基因组DNA，选取5—10kb的DNA片段，以pBluescript为载体、XL-Blue为宿主菌，构建基因组文库。自动测序仪测序，共测定1,500个序列。
3. 通过计算机分析(分别应用UNIX系统中的InnerPeace 和DNAsis软件)拼接组合，最终获得全长为305,108 bp的WSBV基因组全序列。

二、构建感染对虾的cDNA文库，以地高辛标记的WSBV DNA作为探针，从cDNA文库中筛选WSBV的cDNA。测定两端的DNA序列，获得WSBV的表达序列标记(EST)。参照其基因组DNA序列，获得cDNA序列。

三、计算机辅助生物信息分析处理结果：

WSBV基因组DNA大小为305,108 bp，含有开放阅读框144个，其中52%与其它生物体的蛋白质相关。结果说明，本病毒是一种新的病毒，是迄今为止已知的最大动物病毒，也是最早测得基因组DNA序列的海洋生物病毒之一。

一种对虾白斑杆状病毒基因组DNA全部序列，共305,108 bp；白斑杆状病毒的37个cDNA序列。

本发明所述的对虾白斑杆状病毒基因组DNA全部序列，涵盖该病毒复制、增殖、感染所需的全部调控基因、结构蛋白基因和功能蛋白基因；调控基因包含顺式元件和反式因子基因；结构蛋白基因包括病毒外膜蛋白基因(含与宿主细胞相作用的各种蛋白基因)、核衣壳蛋白基因和非特异性DNA结合蛋白基因等；功能蛋白基因包括各种酶基因，以及修饰宿主功能的各种蛋白质基因。

本发明所述的对虾白斑杆状病毒基因组DNA全部序列，其特征在于白斑杆状病毒cDNA序列包括各种调控蛋白cDNA、结构蛋白cDNA和各种功能蛋白及其他多肽类的cDNA；全部阅读框包括前导肽、信号肽等。

WSBV基因组 全序列：

WSBV总碱基对数：305108 bp

碱基对组成： 92043A； 62482C； 62635G； 87948T

碱基百分比： 30% A； 20% C； 21% G； 29% T

环状双链DNA 分子量(kDa)： 188071.6

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1      GGATCCAGAC ATCACCCCAA CAATCGCAGA CCCGATTACA GTAGCAGAAG TTGGAAACCC
61     TGTCGTGAGG ATAAAAACTC CTTATGTGA TGAGTTGAAT AAATTCATGA GATTCTCTAC
121    TAATTTCTCA TTTTAAAT ACGTCAAACG GTTTATGGCG CAGAGAGCTT CATCTAATAG
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181	TAGGAATGAT	ATGTCCGCTT	TCTTATTAGA	TTTGATTTTT	GAAAAATTGA	TAGAGTTTTT
241	ATTATCAACA	GGATGGAATA	GAGAAGCTCT	GGGAGGAACT	ACTGGGGCTA	TTCTTATGAT
301	CAGGACGGCA	ACTTGTGCTC	TAGCGCAATC	TTATTACCCC	CTCCCTGAAA	CCGTTGGTAT
361	GGACTTTTTG	CAAACACCTG	GGTTTGACTA	CAATAAATCT	TTCCCTAACA	ATGAAAGGTA
421	TATATATGAA	TTTCAAGCTA	CAATGTAAAT	AATTGGTTAA	TAAAATAAAG	GTATATTTTT
481	AAAAAATGTG	TTTATTTTTT	CCCAACCTTA	AACAGATCAT	TGCCAGGAGA	AAATCGCATA
541	CTTAACAGAT	AATGCCTATT	TGTATCATCG	ATGTCTTCGT	CAAACGTTGC	TCCAAACACA
601	AGTGTGTTGA	TCCTATTTTT	CTTCAAAACT	GTTGGTTTGA	AATATAATAC	AAATTTGTTA
661	GCTGAAAATT	CCCTTCCTGT	AGCATTTAGA	CCTGGAGACA	GTGAAACAGA	GTCCACTGTT
721	ATATCCCTCT	TTGTATTATT	GTATACTCTT	GCATACAATT	CTAATTCCTT	AGATTTCGGCT
781	TTGTTTACAT	TTAGTGTGTG	GTCTCCGTCT	CCAAGTAAAG	ATGTGAGGAT	TATGTCTCCT
841	TTCTTTTTTA	CCAGTTCAGA	ATCGGACGTT	CCTTGGCCAG	CTACATATAC	CTTTCCATAG
901	TTCCTGGTTT	GTAATGTGCC	GTTTACAAAG	TTAAAGTGGT	TTCCTCTAGC	AACACCGTTA
961	ATGGTCAAGT	TTATTATTTC	AGATTCAACA	GGGTAGGCGT	CTTTATCCTT	CTTGTCCAAT
1021	TTCTTGTTAA	GTTCTATGTT	GGTTACAAC	ATAGATATAA	CCACGAGTAT	CAATGTCAAA
1081	CCCGCCAGTA	TAGCGGCGTA	AACCCCCAC	ATGTGCATTT	TGAAGAAAGT	TGTACAAAGG
1141	TCATGAGAGA	AAAAAACAGA	TATTAAAGTT	TGTTATATTT	TATTTAGTCG	TAGAAATCAC
1201	CACTGAGATA	TATTGTGAGC	AGCAACTGCC	GTTTCAGCAT	ACTCGAAAAG	AGAATAGTTG
1261	CGATCCTTTG	AAGCCGGCAT	CTTGAAATGA	TGTGCAGTAT	TATTTCTGCT	AGTTTTGTTG
1321	AAGTACTGGA	TAGCCTTTAC	TGAGTTGAAA	GTTTCACGGG	AACAGCTTGA	ACAGTTGATG
1381	GAGGAAGAAG	TTCGCCTGCA	CTGGCAATTC	ACAAAGGAGT	GCTGATTATT	GTTGTTATGA
1441	TGGTACATTT	TGAAGGTGAG	AGCACGCTTT	TCTTCAACCA	AAGGTGTTTG	TCTAATGTGG
1501	CTCAGGTACA	TCCACGCTCA	CCTTTTATAC	CAACGTCTTA	CAGTTCCTTC	AGATCTTCCG
1561	TCATGGCTTT	AATCTTGTTG	GTTATCCCTC	GATCTACGAA	GAATCTAATA	TCTCCCTCAG
1621	ATCTGTTCAA	AACCTTCCAC	GACTCCATTG	GGTCCAGAGT	ATAATCTGAC	CTTTCTATGT
1681	TTTTGACAAC	TACAGGATCT	GGTTGAATAT	ATGCAGATGA	TGCATCAAAA	TCTACTTCTT
1741	CGCCGCTCAT	GCCTGTTTCT	AGTCTTGAAA	GGAGTGTGTC	CAAATCTTCC	TCTTCTTCGT
1801	CTTCTTCCAT	TTCTTCTCCA	CTATCTAAAA	ATTTCGTCTAT	ATCATTATCA	TCAAAGTCTA
1861	TGTCTATATC	ATCATCATCA	TCTTCCCCAA	GAGATGAAGA	AGGAGATGGG	GTTTCGTGTCG
1921	GGGGAGGTGG	AGGAGTAGGA	GTAGGAGTAG	GTGGAGGAGT	AGGAGTAGGA	TAGGAGGGGG
1981	GTGGAGGTAA	CAAACCTTCT	CCAGGCACAG	TTCTGTTCCT	TCCACCTCCT	GTATTGGACC
2041	CAGTATTTAC	ACTCGGTTGT	TCAAATTCAA	AAACTTCCTC	CTCTTCTTTT	CCGTCTTCTA
2101	CAGCACCTTC	CTCGTCTCTT	CCGTCGGCC	TATTTTTCAGG	TTCCCTTCGC	CCTAATACAG
2161	CTCCTTCGGT	GTCATCTTCT	TTTTCTTCTT	CTTTATCTTT	CTTTGTTTTT	TTATTGGATG
2221	TTGTAGTAGT	TTTATTGGT	CGTGACATGA	AAATCACACC	AACCACCACA	CCCACAAAAC
2281	ACACAAAAG	TATGAGAGAT	AATAAAAGGA	ACATCATTAT	TATCCTTATT	TTTTTACATT
2341	CAATTATGGC	ACCAGAAAAA	TAAAATGATT	TGTACAAACA	CGAGTTACCC	CTCCACACGC
2401	CTGACCTCTG	CCGCGAATTC	TTCATACCCT	TCCATATTCT	TTGCTGCAAA	GGTCACGTCA
2461	TGTTGATGAG	CTACCATTTC	ATATCGCATA	TCTCGCCAAA	AAGATCCATC	CGCAACAGCG
2521	GCCGTGCATT	CTTCTTCAAT	GGCAGAAGTC	ATCTCAGCTG	TCATTTTTTT	AATAAGATCA
2581	CGTAGTATTT	CCTCCCTATA	CAAAATCTATA	ACCTTCTGCC	TAAAGACAGG	CCTCTCTGCT
2641	AAAAGAGAAG	GATTTTCTGT	AAGCTGGTCC	ATGGTGTAAT	AAAGTGTTCA	TTTATCTAAC
2701	TTTTAAAACC	CAAACCTTTC	TAAAATATCT	ACAGATTCCA	GGTACTCTGC	CGCCATTGTT
2761	GTAATCATTG	TATTTGCCTT	GTCTATCACT	GCTTGTCTTT	TATCTTCCAC	ATCTCCCACC
2821	TCGTCTTCGT	GTTTTTTCCT	TTCTTCTTCT	AGAAGCCGTC	TAAAGACAGC	TTCTCTAATT
2881	GAAGGTATTA	GCCCCCTCAAC	TACCTGAGAA	GCTTCTCTGT	TTACATCATT	CACAAATTCTG
2941	GGCGATTGTA	GTACGAGCGT	GATCGCGCTC	TTGTAGATGT	CTTCCAAAAT	GTCCATTTTT
3001	GTTGTTTAGA	CCTAGATAGA	GAGTGGGAGA	CGCTATTAAT	TTTTTTGTTC	ATGTGGCTCA
3061	TGACCTCATG	TCCGATATAT	GTATTGGTTG	GGTGTAATAC	AAGTCTCTAC	AAAGCAATAG
3121	AAGGGGTAAA	AACAAAACAC	ACCATGGTGC	TAACTCTTTC	CTGTACGACT	AGGCGCGTAG
3181	CGTCTAGCAA	GGGGAATTTT	TCTAAGGAAG	ATGCGGTGTT	GGGGAACCAG	TTCCCCATTT
3241	TAAAGAAATC	AAACAACCTG	TCAATTGCAA	GACCTCCCTC	AATAGAATCT	TTTTCTGCAT
3301	CAGTGGAAAA	AATATTCAGG	GAATGGAACG	AAAGTGGGGG	AGAAAAAATT	TTTGACATAT
3361	CTCAGAATGA	AGAAGAATGG	ATGGATATCA	TATCCTTAGT	GGAAAGTGTA	TATGAACCTG
3421	TATTTTCTAA	ATCACTTAAA	CCTGATAAAT	TGGCAGATAA	AACATGTCTA	ACCGCGGCTG
3481	CCTTTGCAGC	ACTAGCTTCT	GCCGTGGATG	AAAAATTGAC	AATCTTATCA	GGTAGTGATG
3541	GGAGTGTGCT	TCAACGTACA	ACAAAGGTTA	TGAAAAAGGA	CCCCAAAAAA	ATAGCAGAAT
3601	CTCTTTTAAA	TAATGAAAAA	TGGACATCTA	TTTTATTGGA	CAGGTTAAAA	ACAGCCAAGA
3661	AACCTTCTAAG	CAGACGAGGT	GCACGTAAAA	GCGCCGAAAG	AGTAGAAGTA	CTTCATCGGT
3721	TGAATAAACT	CAAGGAGGCT	CCTCTTCCCC	ACCATCCGAG	CCTATTTGAT	AATTTTAGTG
3781	GAGGAAAAAC	ATCAGCAGTA	TCTGCTGGAA	CAGTCATCGC	ATCAGATATG	CATTTCAAAAT

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3841 TGGTTGAACA TATTTTAAAG GTCTCCTTTA GAAAATGGGG TCCCTGTGGA GATAAAACTG
3901 AAAGCGGGGA AGAAGAAGAT GAGGAAGAAG AAGAAGAAGA AAAGAAACAT TCCATATCAA
3961 GATTCGTGCT TCAATTTATG AACGGACACA ACGGGCAACA TTATCATAGG CCCGAAAGTG
4021 CTTCTGTTTA CTTTGTGAT TATTATGACT ATTTGGCCTA CAGGAATCTC CCTAATGAGT
4081 ACAAATTATC GTCAATGCAT CCTGGCACAT TCAATATGGA GGATTTACCT TTCCGCCCTT
4141 TCGCAGTACC TTCAACTTAT AAGACAGAAT TAGAGTACAA AAGGTTTGTG CAATCAACAA
4201 ATCTTCCCCA GCTAAGTTTC GACTATGGGG AGTTTTTATG TTACTGTATC TTCGGAGCAG
4261 ATTGGTACAA ACACCTGGGG GATGTGGTAG ATTCTCTAGA AAATAGTTCC ATGATATCAT
4321 TTGATTCTCA GACATTGAGT GGTGTGTATA AGAACACTGC TAATTACAAA AGGTTGGGGA
4381 AGAAAAGAAA CGGAATAGCC GATTTGGCCG TTAGGAGTAT GGCAGAATTT ATCCGCACTG
4441 AAGCGCATAA GGCATTGACA GCAGAAGAGA TGGAAAGAAGA AGAAGAGGAA GAAGAAGCGG
4501 AAGAAGAAGC GATGGACCAG GAGCCTGCAG AAGTAGACTT CCTTTCAGTG CCTCATTTAC
4561 GCCGTAAAT TCGTCAAGCT GTTCTGTGT TAAATAACTT TGTGGAGAAG GATCTTTCTA
4621 TATTGGTTTC TAACTTCAAG AATGTGTTAA CCGATGATAC TGTATCAGGA ACAGATACGG
4681 ACAACTTTGG TTCTAGTGGA GAATTTGAAG CATTATCTTC CCATTTATTC CTTTCAAGAA
4741 TATTGGATGA AGTGCACATT CTTAGGAATA CTGATATACA AAGAACCCTA TTTTCAACGC
4801 ACGTGTCTCT GTCGGATAAA TCTCCCCCTA GCCGTGTCCG TGGAAAGCAAT GTCAACTTTA
4861 ATAATAACGC TGGGAACATT TCTTCCCTGC AAACGTATGG CGGTATAGAA GAGTTGCCTG
4921 AAAATGTACT AGTCGGTTTG TCCGGAGGAT TTGAAGATAC CGACATGTAT TCCGGAGAGG
4981 ATGTTGTTGT CGTATGGGAT GGTTGTGATG GAGGAAAAGT GCTAAGTGTC ACCTTCAATT
5041 GTGGTGATAA TTTTATCCAG CTCCATGAAA AAACAGCAGA AACTTTTAAG GATGATACGG
5101 ATTTAGTTGA ACGAATAAGA GATGTGCTTC AGACTGCAAG TAAGACCGGA AACCTTAACA
5161 AAAAAGCATA TTCAAGGAAG AACATCTACG CTGTTTTGCG TGAAAATGGC ATTGAGCGCC
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12541	TCACGTACTC	GCTGTGCTCA	GCCATAGCAT	CTGGAGTAGC	ACTGGACACT	TCTTTGAAGG
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19081 CGATGACCGC CAAGTGAATG TGGAGAGCAT ACAAAAACCTT TTGACGGCCA GGCAAAGAAA
19141 ATATGTTAAA GGTGGAATAA GTGGAGATAA TGGACTACCA GAATTGTTAA TTGAAAAGGT
19201 TACAAATCTA CTAGATTGAG TGTTCCATTT CAGAAAGGGG TCTATTCTTA ACAGCATACA
19261 CGCAAATAGG CGATCAGAAA CTGGCGTATA CACCACAAAG GCAAACGTGA TTTGTGATTA
19321 CTATGAAGA AACGTATCAA AAGACAGTAG TAATAATACA CCCCATTGAT CTGAATGTAT
19381 TGAGCGGGCA AGAGAAAGGG ATGCTTCCTG TGCCGAATCT AACAAACGCC CTTGTCCTGT
19441 AGACTCTAAC AACCCCTGAAG ATGTGGAACA ACGTATGCGG GAATTGATCA TGGACCCTCC
19501 TTCATTATCA GGGGTAGAAG ATTCTCTCGC TATCGAAAGA GTACTTCAAA ATGAGATATT
19561 ATTCACAAGT CTTGTCACCA ATCCAATTTT CAATGCCGTG TTAGGTGCTG AAAAAGGAGA
19621 TCTTGGAAGA TTTATCGTAT TAAATAACAT TGTAATAATT ATGAATATGA CTATTGCTTG
19681 TCTAGTGGAC GGAGATATGC CTATGCTTCT AGACTCAAGA GGCAAGACAA AAAACCTTCT
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19801 ATTGAACGTG GCCACTGCTC AATCTGCGAG ACACCAATAC ATGAACGCTG CTCATTGTCC
19861 AGAACCTGGA ATCAAGCAAA TGTTACTCCC TGATTGTATA ATGAAACTGA AATCCATCGC
19921 CATGGAAAAG GGTGAGGAGG GGAGATCGGC CCTTCACAGA CAGAAATGTG ACCATGCCTT
19981 TTGCAAGATG CTGAAGTGT TATTCTTCAA TATTGACCCT TCAAATGCTG CAGATACATT
20041 TATTGACCCT GCGTCACGTG CCACCTTATT TAGGCTTGAT GATCTTTGTA GGGATAGGAA
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20281 TTCACGAAA CCAAATGACG TGTATTACAG TACTATTGAA AGAGCGGATG ACTTACTAC
20341 CGAGAGCAGG GACGCTTCAT GTGAAAGCTA CCGCCCGACC TTGTTTGACG CCGAGCGGT
20401 GTTGGAAGTC AACGGAGACG AACGTGTCCT TTACCCTTCC AGTGAAACCG TAGAAGACTT
20461 GGGAGGAGAA GAAGAAGAAG AGGAAATAAC AGGCGTTATT GACGACAGTA CTGAAATAGA
20521 AGACGTTCAA GTACAGGACA GTAATCTATT CGATGTGGAA TTATTGATA TCCCTGAAAT
20581 AGAACAACAT CAACAGGGTG GAGAAGAAGA GGAACCTCCT TCAGCAATAT CTGAAGTGT
20641 TGCTTCATTA CCAGCTGATA ACGATTCTC CTCACCCGCG CATATTCCCT CATTTGGGAA
20701 TTCTGAGGAG GGGGAAAAAA GTCCAGAACC GTACAATATT TTTGATTCTG CCTCGACCA
20761 ATTATTGGAT TTAATAGATA GCGATGGAAG AAACAATAAC CCTAAAAGAG TCGACTGGAA
20821 CAGTGTACAC ATTCAAGAAT GAAATATTA CCAGAATAGC GTCTAATTAC GTCCGACCT
20881 TTAGTGACAC GTGGTCTCAT TTGGTCAACA TTTCTGGAGC TCCTCTAACT GCTGAGAAGA
20941 ATCCAAGCGC TATCCCAGCT AATCCAAGTGA ATAGATACTG GACCAAACT AACGTGTTAT
21001 GCAACCCACT CTTTAAATTG GAGGACCACA TAACGAGGGA TGAAGATACT GGTACAATAA
21061 CACTAAAATT CAAAATGTAT ATAGATGATA AAAATGGACT ATATCAGTCT GCCGTTTTAA
21121 TGCTGGCTCT CGATTGCTTC GTTTCGCTTG CATCTTTTTT CCATGGAGCT GATTTGGTTT
21181 CCAATAAAAG TGAAAACAAA TTCTGCGTAA AAATTCCCCA CGACACTCGC GCTGAATCTT
21241 TACTGAATAA TGTTGGATTC CCCGCTGGAT TAAGTGGGCC TTTTAAGAGA TGGAGCATT
21301 ACTACAAGGC TGCAAACCTG AGCGGTAAAA GCGGTATAGA TGGCCTTTCA GGTTCATGT
21361 TGACAGTACT AAAAATAAAC ACCAATAAAA GAGCAACTGA TATTTTACAT TTGGTGAATA
21421 ATGTTTCTGC CTCTGCACAA CAACTTGACG ATTCTGAAAT GTCTCGTACT TTTAACCACC
21481 AAAAGAAGT TGGAGTTTGT TATGATATAA ATGTGTCCAG TTCAAGGCAA GTGAACCAGC
21541 GTAATTTACT CCACCATCAG AATATAATAG GACAACATCT GATCGAATTT AGAACCAAGC
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21661 TGACAAGTGA GGAGGAAGAA GAGGAAGATG AATATGAAGA AGGAGGTTGC CTATCAGATA
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21781 CTAGAAAGAA GAAGAAAATG GAAGAAGATG AAGAGGATGA AGAAGAAGAA TATGACGATG
21841 AAGAAGATGA AGAAGAGGCA GAAACTTGTG GTGCTAATGG TGTTATTGAT TGTGAAGACG
21901 ATGCAATCAT TTTCCCAAT GGACAAAATT CAAAAGGAA GAAAATGGT AAAAAACAA
21961 ACATTAAAAA GCGGTCACGG AGGAAGGGTG AGTGCTCTGC TAACACTTGA TCCTTTGTGG
22021 AAAAATACGT TGGAAATTGT AAGAGCCTAG GTATAAGCC AGTAGGGTGT CCGCCCCCAT
22081 CCACTGAATT TACTTCCCTA TTTATGAAGG GGAGTGAAGC TGACAGCTGT TATAATACTT

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22141	GTCAGTCCAC	CAGAGGGGCT	AGCCGTATAA	GGTCACTACT	CAATAAATAC	TCTGTTAAAG
22201	ATTTGATGCA	GGTAAACAGC	CCTTCGAGTT	GGAAATGGGC	TAACCCCTCCC	GACCGACGGT
22261	TCGTGCTGTT	TGATAAGAAA	ACTAAGGAAG	AAGTTGAGGT	TAAGTTTGAA	ATTGAATGTG
22321	AAAAATCCGA	GTATTTTGAT	GTCGTATCTG	AACTCCCTAG	TAATATTAAA	GTATGGTTAA
22381	AAGAGACGGC	AAAAATAATA	AAACATTTGG	CTCTGATTGA	AGACTTTCTT	CCAGCTATGG
22441	GTGCTGCTAC	CCCCAAAATT	CCCCTCAATT	TGATTAAAAC	TATGACGAGC	ATTTTCTCTG
22501	TTAGAGATAT	TGTTGGATTT	AAAATACCAG	AAGAAGTGCT	CAGTTTTATT	CCTATAGAAT
22561	GGAAGACATC	TATTTCTGCA	ATGGGGCTCC	TCTCTGTACA	ATTTGATCGT	ATAATAGAAG
22621	TGATAGATTT	AATGATAACT	AATGGCGCCT	TTGCGACGTC	ATGCTTGAAC	AACGCATTCT
22681	TCTTGGAAG	AGGAGTGGTG	CCCAGAGATG	GGAGTAACAC	GTGGCTCCAC	ACGGACCTTG
22741	TGCAACTCTC	CACCTCCATA	TTTAGAAGTA	TTGCAACAG	AGGAGTGAAT	ATTGGCGGTA
22801	ACAACAACAC	TGGTAGCAAT	CTTCTAGTT	CTTCTTGTGG	AGGGAATAAG	GGCGATTATG
22861	GAGTAGCTTG	TGGATTGAGT	ATAAGCAAGC	GTGGTATAAC	CCTGAAACCA	CCACCTGCAG
22921	CGTAGACTAA	TTCTTCTTCC	CCGTCATCCT	CGGCCATGAT	CTCATTGCCT	CAGCCCACGC
22981	GCCAGAGCAT	AGATCTTTTCG	ATAACGACAA	TCATCCAAGA	TTTCTCAGAA	GTTTCTGGGA
23041	AATTGAGGCT	TAATGGATTA	CAGAAAAACA	TGTCTGACAA	GAGCAAAGAC	GTGTTTAATG
23101	ATGCAATATA	CGACTCTGGC	GCATTCAAGG	CGCTCCTAAC	ATGCACAGTC	AACGATAAAA
23161	GTAGACGTAA	AAGGAAAAGA	AGGACTTTAT	TGGCATCTGG	AGAGGGTGTG	GTACGAAGAA
23221	ACCTGATGGT	GAGTCAGGGC	AATGACGTCA	ATGATGCCCA	CCAGTTCCAG	GAAGAATGCG
23281	GAATAAAAAT	TGGGGGCGGG	GCTTCTAGGG	TGTATAAAAG	AGCCCAGCGC	CGAGGTTCGG
23341	CAGTCAGTTC	CAGAAGAAGA	GTAAGGAACA	AACCCAGTT	TACTATAGCA	GTCTCTGACG
23401	AAGACGACGA	CTGCGAAGAA	GAAGGCGACT	TTTCTTCCGA	GTTAAATCCA	ACGCACTCTC
23461	AACTACTTCT	ATTCCAACAA	CGGCAACAAG	ATAGCTGCAC	AGAAGACGAC	GACGTTTTAG
23521	TGTCTGTAGA	AGAATATAAC	AACAGAGTAA	GCGGTTCTTC	CACCACAGCC	GGAGACAGAG
23581	TTCTTGCAAA	GGATCTTCTC	TCTACTGTAT	CTCCGAACGA	AAAGAGGAAC	TCTGCCGCCC
23641	TCGCCGCACT	CACCATATCC	CGGCACTCTC	TTTTCAACGC	TCTATCTGCA	AAAACAAAGT
23701	TGGGAGAAAA	TGGACGTTTC	TTCTTATAAG	AGCACTATTG	ACTACCACAA	CATTGAAGAT
23761	ATGGACGATC	TCCAGCGCGC	CACCTACAAG	GATCGTATGG	AGACGGAATT	GGTCCTCGAG
23821	ATGGCTAAGA	AGGAGGGAAG	GTACGTCCGA	TCGTTGGCCA	CCATGGACGA	ATTGGAGGTA
23881	CCTGAAGAAC	CAGCCACTTG	CTACACTTGC	GGCTACACCT	TTATTAGACG	CAGGGCACCC
23941	CCACCAAAAC	GCAAGTCAAT	ATTAGAGAG	CCTTGCGCTT	ACCCAGAACT	TCTCCCGCAT
24001	GCACCATCCC	CCGTCCGTTT	AGAAGAGCTT	GTCGACGTGC	CAGAAGGAGC	GAGTTTTTTC
24061	ACCTACCCTC	CCTACGACGA	CGGATCTTCT	ACATCGTCTT	CACAAGCCGA	ATGTGAAGAT
24121	GATTATCCTC	CACCATACGA	CCCATCAGAA	AATCCACAGA	GGTCCCAAGT	GTGTGATTAT
24181	TGTACCACAC	GTCAAGTCCT	CAGTTCTATG	ACGGATCACG	CCAGGGCCAA	CCTCATAAAA
24241	AATCTGAAGA	GGGAGAAGAA	GGCCCTGGGT	CTTGGCCGTC	GCAACAACCT	TAGCTACTAG
24301	GGTTGTACAA	GAAGAAAATA	GGATTGATTG	TATCGATGAC	GAACCTTGCA	TGTTTTTGAC
24361	CATTCTTTTG	CTTGCTGAGT	GTACATAGCT	TTATATTTGC	CAATAAAACA	GACCCCGAAT
24421	GTATTTTTGT	GTATTCCTTA	TTACTGCCTA	TTTTTATGGT	TTAACGGAAA	AAATTTTTGA
24481	AAAGTTTTTG	AGATGGAGAT	GAAGGGAAAA	AGAGGGCGCT	AGTTCATATA	CTGCCCAATA
24541	GGTGGTCGGG	TCCAGAAACG	TCTGTCTGTT	CCAGAAATGT	GTTTAGAGAT	TTCTGGACAA
24601	GTCATTTCTG	GAAAGGGTTG	TAATTTATTA	TAGTTGGTAT	ATTATTTCTG	GTATACATTT
24661	CTAGCTCCTC	TCTGTAATCT	GACGTTGGGT	CGACCCAGCG	GTCCACCCTT	CGAACTTGAC
24721	ATAAGGCCTA	GTCAGCGGTC	CACCCCCTAA	ACTGGAGTGA	GCTGAAAAAA	TTTTTGAAAA
24781	GTTTTTGAGA	TGGAGATGAA	GGGTAAAAAG	AGGGTTGAAA	GGATAGCTGA	GGCCACCTGG
24841	GTCAGCCGTG	TTCCAGAAAC	GTCTGTCTGT	TCCAGAAATG	TGTTTAGAGA	TTTCTGGACA
24901	AGTCATTTCT	GGAAAGGGTT	GCAATTTATT	AAAGTTGGTA	TATTATTTCT	GGTATATATT
24961	TCTAGCCCCT	CTCTGTAATC	TCACGTTGGG	TCGACCCAGC	GGTCCACCCT	TCGAACCTGA
25021	CATAAGGCCT	AGTCAGCGGT	CGACCCCCTA	AAGTGGAGTG	AGCTGAAAAA	TTTTTGAAAA
25081	GTTTTTGAGA	TGGAGATGAA	GGGTAAAAGG	CTAGTAATAG	AAGGTTGTGT	AACTCGGCAT
25141	AACCCAGAAA	CATATATCAA	AAGGGATGGA	AACAACCTATT	CTTTTTATAC	AGTAGTTTTA
25201	TTGTACCAAA	AACTCAGAAA	TCTCATCACA	TGACAAATCT	GAATGTCCCA	TTCCGTGGCC
25261	CTCAATAACG	TACGACACTG	GACCTGGGAA	CTCCCACCTA	CATGTTTTAC	ATACAGAAAA
25321	TTTTGGCTTA	GATGCATTAT	CAACAAACAC	TTTTACCACA	TTGGCATTCA	TTCTCTTCAG
25381	TTTGTCACAC	ATCCACAAAG	AGGCCATATT	CTCCATAGAA	TCAGATCCAT	CAACAAATAT
25441	ATAGAATGTT	ACACCCTTGT	CGATCCAGTC	CATGGCGACA	ATAGTAAAGT	CTTGCCAAA
25501	AACACTGTTT	CCGAAGATTT	CTTGTCCCCC	ATCCATGTAT	TGGGAAAAAG	TACAGTATGG
25561	TCCACAGTCC	TTGATCTCCT	CCAACGAGTC	GTTCAAAAAA	TCCCTAATAA	AGAAAGACAG
25621	GCAATTTCGAC	TTGATCTGGA	AACCAATGTT	GAGTTTCTTC	GTATTTTCTT	CATTGTTGGA
25681	GGGGAAGAAA	TACGCCAATT	GTGTATCTGC	TTCAAATGCT	CCACACTTCC	CTTTATGGAT
25741	CAGGCGGTTC	TCCATAATCT	CCTTGCCAGA	ATTGGGGAGT	AGGCCTTCGA	AGAACAGGAT

(10)

25801	ATTGGGGCGG	G TAGGA ACTT	TGCCAGTCAA	GTCCATGTTG	GCAAAGAGAT	CAGCAGGGTC
25861	TTCAAAGACT	GAGGCCATTT	TTTTGGTTGT	TGCTGCTGAG	AGAGGAGCAA	G TAGTAGTGT
25921	GGTTACTAGC	AAGGAGCTCA	CAGTCTTATA	TATAGACTAA	CACCCCCCCC	CCCCAAAATT
25981	CTCCCACATC	TTTCATACCG	GGGTCCGGCTA	GAACCCAGAA	ACGGTTTGAC	TCACATCTGG
26041	TACATTATTT	CTGTTATACA	TTTCTAGCCC	CTTCGTGTAA	TCTGACATTG	GGTCGACCCA
26101	GCGGTCCACC	CTTCGAACTT	GACATTTCGAT	CGACTCAGCG	GTCCATCCCC	TAAACTGGAG
26161	TGACCCAGAA	AAATTTTTGA	AAAGTTTTTG	AGATGAAGAT	GAAGGGGGAA	AAGGGTTAGT
26221	GAATACAGGC	AGTTCTGCCT	TGCTCCAGAA	ATGATTCTAA	AGATTTCTGT	GCATTATTTT
26281	TGGTATACAT	TTCTAGCCCC	TTCGTGTAAT	CTGACATTGG	GCCGACCCAG	CGGTCCACCC
26341	TCGGAACCTG	ACATTTCGATC	GACTCAGCGG	TCCACCCCCT	AAACTGGAGT	GACCCAGAAA
26401	AATTTTTTGA	AAGTTTTTGA	GATGAAGATG	AAGGGGGAAA	AAGAGGGTGC	TAGGGTGC GC
26461	TCCAGACATC	TCTAGAGTGG	CTAGAGCCCA	GAAACATCCC	AACTAGTTTC	TGGGACATTT
26521	TTTCTCCAC	TGACGCAGAC	TATATAAGCT	AACCACTAAG	CATATTTTGC	ACACATTTCA
26581	TCCACCATCA	CTGCCGAATA	CACCTTTGTG	TTGCTCCGCA	TAGCCTAACA	ATGGCCCCAA
26641	ACTCCTTCCA	GAAATTTGCT	CCAGTTATCA	AGACTGAGAA	GAAGGAAGAA	GAAAGGGATG
26701	AACATGACGA	CCCTTTACGG	CAGATTGATT	TTAGAGATAG	AAAGACATTA	ATCTGCCTCA
26761	CTGCAAAC TG	TGTTTTGAGG	AAGAGAAAAG	CTGGATCTGC	ACATGATCGA	GTATACAAAG
26821	TACTACGCTA	CGGGAACCCA	TACAAGTACC	GTCGCCCCAA	TAGAACACAT	CGAGGATTGG
26881	CCCTCTCAAT	GGATCAAGGT	GAAGTAGGAA	CATGCCTCCC	TCTGCGACCC	ATGGAAGAGA
26941	CTGAAGAAAA	CCCCATCGAC	AAGTGCGGAG	TGGCGTTCCCT	GTACTCCAAC	TACAATGAAG
27001	GCGATGGCAT	GACCCACCTT	TACAACGACG	AAGAGTATAT	AAAGAAGTGC	AAAACAATTG
27061	AAGGAGGAAC	AAGAACGTGG	GTAAGAAGAA	ACCGCCAAGA	ATACTTCAGA	CAAGCTCTAG
27121	AGACATTGAT	GATGTCCCAT	TCTATAAAAC	AATATTCCAA	TTTTATTTTT	TTCAAGGAGG
27181	ATATGGAGGA	AGGATTTGTG	CACAAACTCC	ACACATTTAT	TAATATGGTA	CACCCTAAAA
27241	AGGTGTCTGT	TTTGTGATAT	AATAAAGATT	GATGTTTTTA	TAAATGAAAC	GTATTATTTA
27301	TACCAAAAAA	TTTATTATGA	TGTATTTTCT	TGGGATGGCT	TTTCACTCAC	CAATCTGGCC
27361	TATGTGTGTG	TTCATGCTAG	CCCCTCTTTC	ACCCTTCATC	TCCATCTCAA	AAATTTTTAG
27421	AAAATTTTTT	TGGGTCGCCT	GAGTTTAGAG	GGTGGACCGC	TGGGTCGGCC	TAATGTCAAG
27481	TTCCGAGGGT	GGACCGCTGG	GTCGACCCAA	TGTCAGATTA	CAGAGAGGGT	CTAGAAATAT
27541	GTACCAGAAA	TAGTGTACCA	GTTATAAGAA	AATGTGACCC	TTTCCAGAAA	TGGCTTGTCC
27601	AGAAATCTTT	GAACCCATTT	CTGGAACAGA	CGTTTCTGGA	GCATGGTCGA	CCCAGATATC
27661	TGTTGGCGGC	TGTC AATAGT	AGCCTATGTA	TTCAATGGTC	TTTTACCCTC	TTCTCCATCT
27721	CAAAAATTTT	TAGAAAATTT	TTCTGGGTCG	CTCGAGTTTA	GAGGGTGGAC	CGCTGGCTCG
27781	GCCTAATGTC	AAGTTCCGAG	GGTGGACCGC	TGGGTCGACC	CAATGTCAGA	TTACAGAGAG
27841	GGTCTAGAAA	TATGTACCAG	AAATAGTGTA	CCAGTTATAA	GAAAATGTGA	CCCTTTCCAG
27901	AAATGGCTTG	TCCAGAAATC	TTTGAACCCA	TTTCTGGAAC	AGACGTTTCT	GGAGCATGGT
27961	CGGCCAGGC	AGCCTCACAG	TTACCTGTTC	ACACCCTTCC	TACTAGCACC	CTCTTTCACC
28021	CTTCATCTCC	ATCTCAAAAA	TTTTTAAAAA	ATTTTCTGG	CTCACTCGAG	TTTAGAGGGT
28081	GGACCGCTGG	CTCGGCCTAA	TGTCAAGTTC	GAAGGGTGGG	CCGCTGGGTA	GGGCCCATGT
28141	CAGATTACAG	AGAGGGTCTA	GAAATGTATA	CCAGAAATAG	TGTCCGATTA	TTAAAAATTT
28201	AACTTTTTCA	CATGTGGCAT	ACACCGTATG	AACGTATAGC	CAAATATGTA	CCACAGTCAA
28261	AACATTTAGG	TGAGAAAGAT	AATACACATG	TATAAATTTT	AAATACTTTA	TTTGCATACA
28321	TAATAAAAAA	TCATACAGTT	TCGGACTCAT	CTGTCCACAC	ATCATTTTAT	AGGAACTGGT
28381	ATCTATTATA	CCCTATTCTT	CTACGTTTAC	AAGATACTTG	TTCATCAGGC	ACTGCCATTC
28441	TTTTACAAGA	CAC TATTGGT	TCAACCAACA	TCTCTTTAAC	TTGATCAGCG	TCAGGTCTTA
28501	GGGAAGTACG	TTCTCTGCAT	ACAGGACACC	GGGTAATTTT	TCCACGTTGC	G TACTCAACA
28561	CCAATCTGTC	CCAACATTTT	TCATCAATAC	AATGTCCACA	GCGTGTCCGC	CTGATGATAT
28621	TGGTACTACT	GAAATCTTCT	AAACACACTG	GACAATTTAT	CTATCCCTTC	GAAATTATGT
28681	CATTCTTCTC	ATGTTCTTCT	AGAGCCCTTT	TAATTTCTTC	CTTATCCCCA	GAAATTATGT
28741	GTT CAGCCCA	AGGATAATTT	GAGGATGCAA	TATACCCCAA	GCGACAATTC	AGTATTGGCC
28801	AAGAACGAGG	TGCTTTATTG	ACATCGAGAC	CGGTGGCAGC	AACAAGGGGT	TCTTCTTCTT
28861	GGAGAGAGAA	ATCTAAAGCA	GCTTTCAATA	TGGTGGGTAT	ACTAGGCTCG	TATCCTCTCT
28921	GGGCAAAC TG	TGTTAATGCG	GTATCATTGA	ACATCAATAA	TGCTGCTTCA	GTTACACTTA
28981	AAGTACTAGA	TTTACCATAC	AACATATTAA	TCTTTGCCCC	ATGGGCTCCA	ACTAGTGCAT
29041	CAGAGACATC	GTGTTTGTGA	TTGGCGATGG	CAATCATTAG	GGGCGTTGCA	CCATCGCTCG
29101	CCTTCTAGCA	TTC ACTATAC	TTCTATCGAA	ATCGTATATT	ATATTCTTGT	ATTTTTTAGC
29161	AAGAGCATCA	AGAAAATTGC	ACGAGGTTGC	AACAGCTGCA	GCATGGAATA	CGTTTTTCATT
29221	ATTTTCATTA	ATAAAGGAAA	AGGCCAAGCT	GTTTGTGTGT	AGAATTTCAA	TACCTACTCT
29281	TGTGGTAAAG	GGGGAAGATA	TTGCAGCGCA	AACCATTAGA	GGTGACATGC	CTTTCGCAGA
29341	AGGCTTCAGA	ATGTTAAGTT	TTTCTTGTGT	GACTAGTTTG	CTAGTATGGG	AATATTTGTT
29401	AATGATACAA	TAACACAATA	GAGTATTCCC	CTTTTCATCA	AAATAAGTGT	GTTTGAGCCA

29461 CGGATTCTTG GTAAGAAAAG CTTCAAGATC TTCCATGAAA CACGAGACTT TTACACACAA
29521 TCTAACATAG CCTTTAACTT CATGAGGGTC TGTTATCACA ACGTTTTTAT GTGATACGAT
29581 CCTTTTCACA ATAAGATTAT CGCACAGTTT GTCGGTCTTT TTTCTTACCA TAATCTCCCT
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30361 CAACTTCTTG ATCCTTCTCA TAACCTTCTC TCTTTCTTCC TCAGCCTGTT CCTTTGAAGT
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32461 TGTACTTTTC CCCAATACAT GGACGGTGGG GATGGTTCAC GTGGGGGATA TTTTACTTCG
32521 CTAGCCATGA AATGGATGGC TAGGGATGTG ACTTTCTTTG TGTTTGTTGA TAGGAATAAT
32581 ACTGTAGAAA ATGCGGCATC CATATGGATG TACCAAAAAC TACTAGCAAT TGGTGCAAAG
32641 GTAGTAAAGG TGATTGTTGA CAATGCATCA AACCCAATGT TTTCTGTATG TAATGCGTGT
32701 AGGTGCAAGT ACCCAGGCCC AGTGTCATAC GTTATTGAAG GCCATGGAGT GGGTCATTCT
32761 GATTTGACAT GTGATGAGAT TTCTGGATTG TTTGTATAAT AAAACCCCAT AAGAAACAAT
32821 AATCTTTTTT ATTCACACC CATGATTTTA GTTTTATAG TATATAAAAT CAAGAATAAA
32881 GTATGTAGAT GTCTACTTTT CGATAGCTCC TTCACCTATA TAGAGGAGGT GGATAAAAAC
32941 AGAAGATATG GATTCTAATA CTTCTATTTT ACCGCCAAGC AAACGGCCAG GGTAAATCT
33001 GTTACAGGTT TTAGGGATTA TAATAACGGT AGCATTAATA GCTTCCGTTT CATCCTTTAT
33061 ATTTTATAGG GTAGGTAAAC GCAATATTA CCCTTCTTCA TCCTCTTCT CAGAATTATC

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33121	TGATGTAGAT	AATGGGGTAG	AAGGAGGAGG	AGGAACAACA	ACGACACCAA	CTCAACCTTC
33181	ACCTGACGGT	GGAGATGGAT	ACGTAGATCT	TTCTCCTCAA	AAGAAGGCTG	AACTAAGAAC
33241	TAGAGTTGCA	AACGTCATCT	TTCAAGAAGT	GTCAAAGGAT	CAAGGAGTGG	CCTTTAGACG
33301	GGCAATGAAT	GATTCAACTG	ATAAGATAAT	GGAAGAAACT	GAGGCGAGAA	TCAATAACTT
33361	TTCAGAGCCA	TTCAGAGAAG	CAACCGTAGA	ACGTGAAGTG	TTTAAGGATG	ACACAGACAA
33421	AAACTTTATC	CTTCAACTC	TAGATTTAAC	AGAGGAACAA	TTTAAGGACA	TTGTTATGGC
33481	TGAAGTGAAG	AATCAATTAG	AAAATTTTGA	CTATGAAGAC	ATGACCCGTC	TCATCTTTGA
33541	TAACATCCCA	GAGACTGATT	ATTTATGGAC	AACTCATTTT	GATCCGAAAA	AATATGACAC
33601	GTAATCTGAA	AAGGTATTAG	GGTTCTCAGA	TATAAATAGT	ATAGAAAGAA	TATCCTCTAC
33661	ATTTTATAAA	GGTAAAAAAT	ATGAGGTAAAC	TACTGGAAAT	GTAGCTGTCC	TCGTTGATTT
33721	TGAATCTGAA	ACAATAAAAG	AGAAGGCAGG	AAATAGTCTC	ATCCGTAATG	TCGAGTTTAT
33781	TGTTGTGGAC	GAACAGACCT	ACAAATCTTT	CTTCCCTGCA	TTCAATCAAG	TTTTCTTCTC
33841	CTTTAAAGTA	AATAAGGAGA	AAAGGGAAGT	TACTGTATCC	ATCAATAATG	GATGTGTAGG
33901	TATAGTGGCC	AATATTACTC	CTCTAACTAC	GCCAGTTGGA	GCAGCTCCG	GACACTACAT
33961	CTATGGCACT	AGCACAGCAA	AGGAAAAGAC	CTATCTATTT	GTAATAGACA	AGTACGATAC
34021	CACTGAATTT	GTTTGTGGTC	TGAGTAACAA	GTCAACTCCT	CTCATGGCTC	TAAATATTCT
34081	CTTTATGAGT	GATACTGTTT	TCCCTTCATT	TGACGAAGCA	GAAAGACCTC	TGACGGATGC
34141	CAAGGCAGTA	GAAATTTTAG	GTAAAAGACT	AGGTGTAGGA	AGATACACAA	ACGCCAACAT
34201	CAGAAATACT	CAGTGAGATG	GAAGGGGTTA	TTTTGGATAA	GATAGAAACA	ATTGCAAAAA
34261	GGGCCTCTCC	TAGTTATGGG	TCTATTGATG	TGGGTACGGC	TATTTTGCGC	CGTCAATTCA
34321	TGGAAAAAAT	TAGGGGTAAA	ATAAATGAAG	AAACCACAAT	GGAGAAGATT	ATGGGCACAA
34381	AGGAAGAAAG	AGAGGACACT	ATAAGAAGTA	TAGTGGCTAA	TGTTATCAAA	GAGAATACTG
34441	TTAAAGAAAA	TGTAACCGAA	AAAATTAGAG	CAATGACAGA	TAAGGAATTA	AATGACAATA
34501	GGGAATTTAT	GCATGATTTT	GGAAAAATTT	CAACTGGAGA	TGGAGGAACC	TTCCATCTCT
34561	TTGAAGATAC	ACCGGGTTTT	GAAAGTGCTT	TAAAGGCAGA	ATATAAAAAAC	GTTCCAGGAG
34621	CAACTACTCC	AAAATACGTA	TCTATGAACA	GTTTACGTAT	CGATGCGATT	AATGGAAAAA
34681	TCGAAGAGGT	TTATAATCCT	TCACCTATCA	TGGGTATTAG	AGAATACGGC	ACCATTTCGA
34741	GGGGCAGGTA	CGAAGAAAAT	GCAGGTTCTG	AAGAATTGGT	TTTTATGACC	AAGATTGAAA
34801	AAAGACCCAA	TAATGTAGCT	GAAAATCTCA	TTATTAGAGT	TGCCAACCAG	CAGTATAATG
34861	TTATGAGGAT	GGTGTTTTTT	ATAGACTACG	AAACAAAGAA	GGGGGTGTCC	AAGGAGGAAA
34921	TGTTTATACC	ATATAATGTT	CAGAAAACAA	AGGCTCTTAA	AGGGCGTAGT	ACTTACTTTT
34981	CATTTCGTAAG	GAAAATTCCT	GATGAACCA	AAGGGAGTAT	CATAATACAT	GCACATAGGT
35041	TTTATGTAGG	AAATAATAAT	AATAATAATA	ATAATGGCAT	TACAGGAAAA	GGATATAACT
35101	ATAGGGAATG	TTTCTGCTGC	CCTACGAGAG	TTGATGTACT	CACCCACACA	TATGCAGCAT
35161	CACGATAAGC	TAAACACATT	CCTGGACAGA	AATGTTGAAT	CATCTTCAGA	AGAGAAAAATA
35221	AGACAAATTG	TGGATAAAAT	ACGATCCCAA	ACAACATCTG	ACATATCTGA	AACAGTCAAT
35281	AATGTCACAA	CTAATGGGAC	TGCATTTTCC	CTTTTTCGAAG	ATACCTTAGA	AGGTATGGTG
35341	AAAAAAAATA	TAGGTGATAA	CCTTCAGAGT	GGGGACTTTA	TTGATGGCCG	TAAAAAGCTC
35401	AATGACATGA	AGAGTCTAGC	TACTGGAGCC	ATCTTATCTA	GACAGCGAGA	TTTTGTTGCA
35461	GAAAGTATAA	CAGGAACAAA	GGACTGGCTC	AAGGCTATAA	TGGGTTGTGG	TATTATAAGG
35521	TATACTGTAT	TTGTCAATAA	CCTTGCAAGA	TCAACACTCG	ATAATGATGA	TGACAAGGCA
35581	GCAACCTATT	ATAACACCCC	TATATATGGC	TGGTATTGTA	AAATGGCTAT	AAAGGACTAT
35641	GAAATACCAG	ATTCGTACAG	CAAGGTTCGAA	GCGGAACATA	CAGTTGAAGG	AAGAAAGATG
35701	ACCTTTAATA	TAAAATGGAG	AGGCGATACC	ATAAACAACC	TAATAACAAT	CATCCCTTCA
35761	GTGACAGGTT	ATCTTGCTTC	CATCTCTGAA	GACGCAGATG	TGCAGGCGCC	ATTACTTTTA
35821	AACTGCAACA	ACTGTTTTAT	AGAGGCAGAT	ATGAGTAGCC	TCTACATGGA	TGAGAAAAAA
35881	ACAGAGGCAT	CATTTACCCCT	CAACTTACCG	GAAATCGAAG	GAGCTGATGC	GAATGCAGTC
35941	TATGAAATAT	GTATAGTAGT	AGTTTGATGG	AGGACAAATA	AAAAATTGGA	TACATTTTCA
36001	GTAATTTTAT	TTAACTCTTA	ATCTTATATA	CATTTTCATG	ACATTTTCAT	AAAAATCACT
36061	ATCAGAGCTA	TAGTACAGAA	ACTGTTGCTG	GAGCTGATTA	ATCCTCCTGG	CCATGACGGC
36121	AGATGTCCCT	CGTGAAGTGT	TGCGTCTGCC	GTCTCTGACC	CTATCAACCA	TCCTACCTGA
36181	ACCTGGGGTT	AAATTAACAT	TTGGTGCATC	AAAGGGGGTG	TGAAGAGGTG	AAGAATAAGG
36241	AGAAGGTACA	GGACTAGCAT	CATAGTCCCT	CACAATCCTT	GTTCTTCCCC	TTCTAACAGG
36301	TGTGGATGCG	GGAGGGGGCA	TATTAGCCGT	GTCTAGCAAC	TCCAACATCT	GTGCCTGGTA
36361	TTCAAGTGCG	TTAGACACAA	ACCTCTCAGT	GTCTTCTGCT	TCATTGTCAT	TATTAGGAAT
36421	AACACCATAA	TCTTCCATGA	GGGCGTCACG	CCTTCCTGCC	TGATGCCTCT	CAAAGAGCCG
36481	TTTTCTTTCC	TCAGGGTCAT	CAGAGAAGAG	TTTGTGAACC	CAGCATGGTT	TCTTAGCCTC
36541	CCCTACAGCC	AAGTCAGGCA	CAAAAACCTG	CTTATTTTTT	ACATTCTTAT	AGGGAAGAAG
36601	AGGGGGCAAC	ACCTTGACAG	GAGCAGGAGT	GGGGGGTAAA	GGAGTGGTAT	ATTCACCCTT
36661	ATATGAACTA	GGTTTATGGA	ACTCCTGGCA	AGGTATTTTG	CCCTCCCTGT	CCTCTTTTAG
36721	AGGGGCGGCC	TTACAGCCTC	CAAAAACCTT	CTTAGCTATT	TTAGTATGCA	TTTTCTCAAT

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36781	CCTTTTCATA	CCTTCAGACA	ACATCATGAA	CCCATTCTTA	TCAAACCTGAA	AACCCCTCAA
36841	GAAAAACTTA	TAAAAGGACT	TTTCATTCTT	TGCAAGAAGA	CATCCCGCCA	TTAGCCTAAT
36901	TGCACTCAAA	ACATCCCCTA	TCTCCCCTTC	CCCATACTTT	ATTTCAGGAA	ACCTATTGAG
36961	TGCTGAGCAG	GTACTTTCTA	TAGATGCTCT	CAGAGCATCA	TTTTCCAAGG	TTGATGAGCT
37021	ATAATCAACC	TTCTTACAGC	TGGCACACTT	CTTAACCATA	TCCTTTATTT	CCATTCTTTT
37081	CTTATGTTTC	TTCATCATTT	CTGATGAAGA	GGAAGTTTTG	ATTGATGTCT	TAAAGACGAT
37141	ATTCTTCCCT	TTTATTGTCT	TTCCTTTCTT	GCTGACGATA	CACCCCTCCCT	TCTTGCTGCT
37201	GCTGCTGCCG	CTGCTGCTGC	TGCTGATGAT	GTCAGTTCCG	GCCATTTTTA	ATGACTCTAA
37261	AAAACAAGGG	GGTAACACAT	GTAATAAAAT	GCATTATAAT	GTAACATTCT	TTTATTTTAA
37321	TAAAAGGCAG	TAGAAAATTT	GTACATCATT	TACAGGCAGG	CATATACAAA	AACACATCAC
37381	TTTATAGATT	GGGCAGGGAA	GATATTTGAT	CAGCTTCCGA	AGGGTCAGTA	TCAAACCCAT
37441	TCAACAATGA	ACTGTGTACA	TGTGCAATTT	CGTCATCCAA	CCTAGCATT	TTAGAGGCTG
37501	ACTTAATGAG	ACAGGAACCA	ATTAGCTGCT	TATTAGCACT	CCACTTTGAA	GCGTACTTAC
37561	GCTTCACCTT	CAATTTCTTA	GAGCACAAAC	TCTTACCAAT	TACATCATTG	ACAGTTGTAT
37621	GGAACAGGTT	ACCTCTAGAT	ATACAATCTC	CAAGCTTATT	CTCAGTTTCC	TGTCTCCTTT
37681	CTCTAAGAGC	AGAAAGTTCA	GCCAGATACC	TATTGGCAAT	CTCATTATAC	TCCTCATCAA
37741	TATTATCGAG	TCTACACATA	TACCTCTTGA	CATCTACACA	CAGTCTCTTA	CTCTCAGAGG
37801	AAATATTAGA	CATCCTGTCC	TCGTCACGCC	CATACCTTGG	CCTCTTTCTA	CTGTTACTAC
37861	TACTACTACT	ACTTCCTGAG	GAAGTAGAGG	GCTGATTAC	TGATGACGAA	GAAGGTATTA
37921	CTTCTTCGTC	ATCAGAGTCT	GAATCAACAT	TAAACAAAG	GTTAACATTA	ATGTTAAGAG
37981	AGGTTTGAGT	AGGGGCGGAT	CGGATGACGT	AGAAAGCACTA	GGCATATTCA	TAAAGTGAAC
38041	AGTCAGGCAA	AGACATTGTG	TCATCATCAT	ATTAACATCA	TCTAGGGGGA	ACAGTCAAGT
38101	TACTAATACC	ACTAATAGTA	TCAAAGGTAA	TATTGTTACT	CTACCTCTGG	GGGGACAAAC
38161	CAGGAAGTGA	CTCTGAGTCA	TCATTATCAT	TCACACCAGA	CAACAAACTA	GGGGAGACAT
38221	CCTCATCATC	TTCAATGAAA	TTGAAGGATG	TACTCAAGCA	TTGAGTAATG	TCATATAGTAT
38281	TATTATCACC	TTCATCATCA	TCATCATCAT	CATATTCATA	AGGGGGGGATA	TCCTTGAATT
38341	TGGGAGCTAC	ATACTTAAGC	CATTACCTT	CAAAGGTCTC	TTCACTGAAT	GCATGCATTT
38401	TACCCATTAA	AGCTGCCTCA	TGATTATCTT	TCAAGCTGGT	ATAAGCCCTC	TCCATATAAA
38461	CCTGTCTAGA	TAGAGTTTCA	AGCATGAAC	TGGGGACAAA	GAAAGTAGGT	GCTAGAATAG
38521	CATCCTCATT	CTCATTAACA	CCTTTGGCAT	CCTTCATCATT	AACATAGTCA	GCAGACAACA
38581	TTGACATCTT	ATTAAGGGTA	TCCTTTACAC	CCTCTTCATA	CACTTTACGG	AAGAACCACA
38641	AAAATGAGTG	AAAAGAGGCA	TACTTGTACA	ATAACAGGTG	ATTTTCATT	ACCATATGCT
38701	CAGGGGGTAT	ATAGGCCCTA	CACATGGGAC	GGTGGACACT	TTTCCTGCAA	CACGGCATCC
38761	CTTCAAATCT	CCAGGTGAAA	AGACACTCCA	CCGAATCGTA	ATCACCATA	CAGATGGGAC
38821	CTCCATTTGA	CCAGTTATAG	CAATCCGTGT	CAGCCATCTT	GTTGTTGTTG	TTGTTTACTT
38881	AGGTAGGCAC	CTCATCAACG	GCGACGGTTT	ACTCATTTCT	TTACTTTAAA	CAGGTTTCAAT
38941	TAAAGAGGGA	GAAAAGCCAA	CGCTATAGCA	ATGGCAAGGG	CATATTCTGT	GATTGAAGGG
39001	ACAGTCCCCT	TAAAAGGGAA	TATGTGCTTC	ACATCAAAAA	GTGCATGTTT	TTCCAGTATA
39061	CGATTTTGAT	AGAAATCAGT	GTCTGTTCCG	TTAGAACAAG	CACCTAGACA	GTGTCCCCTA
39121	GACATCAAAT	TAAAGGCAGG	GCCTTCCATG	CTGATTAGTT	CTTCCGTGTT	CCTAAAATAT
39181	CTGGAAGCCA	TTACTACTGAA	ACTGTACGTC	GAGAGTCCCA	AGTCAATCAT	TTTAGGTTGG
39241	AAGAACTCGG	GAGGTGTGTG	AATGTACTGC	GCCTTTATAT	CGACATTAAT	AATTCCTTCA
39301	TCATCGTTGT	AACAATAACC	TAGAGGGTAT	TCAGCCAAAA	CAAAAGGCAT	GTTACCTTTT
39361	CCAGATATGC	TATCTATAAC	AAAGTTATCA	CGGGCAATGA	AAGAGTCTGT	TATTGGTGCG
39421	TTTGCAACTC	TTGTAATTAC	ATTACAAGTC	CGTCCCATCC	TTTGAAGCCT	GACAACCCCA
39481	AGTTTTTCAA	ACATACTTCT	TACAACCTTT	TACTCCCCAC	CATCTAAACT	ATCCTTGACA
39541	ACTGTATCAA	CCCCCTTTAC	CTCTGGTAAA	GCAAATGGCA	TCTCTAAACA	TAACCCCTGA
39601	TACAACAAGC	GTGCGTCCCT	TGACTCATAA	TTAATATTCT	TTCTGTATAC	AGAAAGGCCA
39661	CACCTAATGA	CATCATCAAT	ACTGATACCT	TTCATATCCT	TCATAAACTT	GACAACAGTC
39721	GGACACACAC	CAGTCACCCC	AACTACCCCC	TTAATCTCAA	AAAAGGTCTC	CCAGGGACAG
39781	TTAACACACT	CAAAAACAAA	CTCTTCATAG	GGCACTTCGA	CCAAATCAGA	CAAACAACCA
39841	CCCCTATTCA	CAATGTAATA	GACCCCATAT	TCACACTGGT	CAGAACTTTC	CTTAATTAGC
39901	ATGAAAGTGT	TAAAGTCCTT	CACATCTTCA	GCAATTGAAG	GCAATTGGAA	CACCTCTACA
39961	CGAGCAGTCT	TACGGAAGTT	TTCCCAGTTC	GACGGAATAT	TACGACTAGA	CAACTCCTTA
40021	GTGCTAGTCT	TTTGTCTAAT	TCGCTCACAG	TCTTCATCGC	AAGAAGAGGT	GGGCCAATAG
40081	GCCATATACA	TTATGTCCAT	AAATCTGGAG	CAGGTATCAT	GGACATACTT	GCTAGACTTA
40141	AGAATGTGTC	TAGTGTCAAA	AAATCTCATC	TGACAGGTAT	CATAATTGTC	CTCAAGACTA
40201	AAGCCAACTT	TAGGGTCCTT	TCCATAGAAA	GGGGAATCAC	GTTCAATCCA	CTCATTATAC
40261	ACAATTGACC	TATGGCCAAT	TCTCAACTGT	GCACACACGT	TTGAAAAGGT	GCGAGTAGTG
40321	CAACTCTTCT	CAATGCCTTT	AAAGTAGTAA			
40381	TGCCTCTTAC	ACTGCCTAAT	CACCTTGGAC			

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40441 GGAGGAGAGG GAGCAACTTC AGACTTCTTG AAACGTTTAG GGGGAGGGGG CGTGATGCTA
40501 AGGTTGATGA CGTCATCCCA AGTCTTGATA GTGATGTTGT TGTGTTGTT GTTGTAAGCG
40561 GGAACAGTTG TGGCTTCGGA GGTGAACCA GACGCGTAGT TGTGTTGTT ATATTCTTCC
40621 ACAGGCCGTT TTTTATTCCC CTGATGGTAA ACATACTGCT GGTGGTGGTG GTCTCCACCA
40681 GTATTGATGG TAGTAGTAAT TACAGTGGGT CCCCCATTG CCTATGGAAG AAACAACAAC
40741 AAATACACGA TTAATTCAAC GCCCGGCACA CTAATAAAGT GATGTGTTTT TTATATAAAA
40801 AATAGCCCAT AATATTTAAC GTTACGTTAA TCAAAAAAAA CAACAACAAT AATAGTATAT
40861 TATTGGTACT TACTTTTGAT GGGTTTGGAG CGGAGACTGA AGTAAATCCA GAAAACAACA
40921 GTTTTACTGT TGGGCACTAC ACTGCACTGG TGACGTAGTA GTAGAAGTAG TAGTGGTAAT
40981 AGTCCACTAT TGTCACTGCA CTGCACTAGT AGTAGTAGTA GTAGTAGTAA GAGCGTTGGA
41041 TAAGCTCGGG TTGGCTGCTA GAGCTGGAGC TGGAAGTGA GCTTGATATGC TTGGCTGTGC
41101 CTCTGCTGAG ACTGATGCTT CTGGCCTGCC CCGGCTCGCT TATATACAAG TTGTCCCCC
41161 TCACCCCCAC TTCCAGAAAT TTGCCGTCGA ACGCCAGTTC TCCAACAGAG TGGGGTCCAG
41221 ATCTGGCTAC GGGTTCACCT CTGGCCATAC CCGTTTAGG GGTCTAAATC CACCCCGGC
41281 ACTAAATGGG GAGGACCTAA GGGTGTTATA ACAACATGTA AGCGTTGGGT AAGAGATCT
41341 GGATCTGGAT GACCCACCTT GTCCTTCTTA TCCTATCCTT ATCCTTGTC CCTGTCTACC
41401 ACCACCTCAC CCCATATCTC TCACCCCATC TCACCTATAC CCCATCTCA CCCATCACCT
41461 CTATATTCCC CCACCTTATT CACTCGCTCC AGTTTCAACA CCCTGTTCTT GCCGAGCCAA
41521 CCCATAACCA GATCTGGACC CCAGTCTTCC CTTTTATCCC TAACCGGCAC CATTTATGCC
41581 CCCAGGCGCT AGCGGTGTAT ATAAGGCGGC GCGGCCAGGC CAGAAGCATC AGTTCCTCTGC
41641 AAGCCAGCAG AAGAGCAACA CAACAAGCAC TCTCTCTCCT TCTACCTAGA AGAGACCTGC
41701 CAATACTCAA GCTACAAGAA TGGCCTCTCC AGCCCCCGCC GCACCAAGTC CTTACACCAT
41761 GTTGGACTCT AAGTTACTTA GTTCTGAGGA ACTAAAGGAA CTAACCTCAT ACGTCTCGAC
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41881 GATCTTCCAA TTCATACAAG GTAAGCACAA GTTCTCACTA TACACTTTGG ACTTTGAAAT
41941 TTTCTATGTT ATGCTGAATA TTTTGTGGT TGAAGTGAAA AATATTCTAA GTCCAATTCC
42001 TTTACTCTTT GACAGAAATC TCCAACCAGT ACGGAGACTA TGGATGTTTC ACAATGGCCC
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42121 CCGAAGGCGC CCAAACCTCG TCCCCGGCTG CTTGTGTTGG TGCGAAGGTT GTGAAGGCAC
42181 TGGTGAGCTT TTGCCAGAAG ACCCGCTTCA CCACCAACAT TGTGATGAGA GAAGTTAAAG
42241 CCATGGAGTT CCAAGGAGAC GATTTTAACT ACTCTGCCTT GTGTGCAAGT ATGCCCAAC
42301 GCCCCGTGAC TGAGAGGCAG ATGTTGCCCC TTATGAAGAG TGAGGACGAA GAAATGGGAG
42361 TGTCTGCAAA CTTCTCTCCA GTTCTGATG ACGTCATCAA CCCTTCAAGC TCCCCCTCTG
42421 GACAAGAAGT CGACTCATCA ACTTCCGCTC AAATTTCTGG TATGTTTCAA AACGTGTGGA
42481 GTTTGCTTGA AGAGTGTGGT AGTGGCTCTA ATAGTAATAG TTCCCCTGTC TCTAGGACAG
42541 TCTTAGTTTG CACCCTGTTT ATAATCCAAG TGTTCAGTT TTTGGTGAAT AAAGTGTCTA
42601 ATGTGAACGT ACTTAACCAG TTGTTTGGAC ATGTTGTTTT TGGATCACTT GATGTGGCTC
42661 CAAGTAATAA TAATAGTGTC CCATCAACTG TTGTTAACAA CAACAACAAA CCCTCGACCT
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42841 ATCATGGCAT GTTTGCCGGT GCGCTGTTG ATGTTAATTT GGATGACTTT GTTTTCCCG
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43321 TGGCATTTCAT GGGTATTGAC ATTGTAAAG TGTGCGCTAA GGGGATTCAA AAGTATATGT
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43681 GTGACACAAT CATTGAATTG ATGTACAAGA CAAAGGATGG CGTAAAGGGA GTCTCAAAAA
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43801 AAGCCGAGAA GACCCTGTAT TTTGAGATTG ATTCCGATGA TGAGGTGTGT GAGAGAACAG
43861 AGGAAGAATT CTTCAGGCCT ACATCTGTTG TTGCTGCCCC GACAACACCC CTCGTACCTT
43921 CTAATGTGGA GGAAGAGGAA GAGGAAGAAG AGCAGATGGA AGAAGAGGAG GAAGAGGAAG
43981 TAGAAAGGGA AGAAGGATCT GATAAGGAAG ATGACGGAGA CGCACCAGCA CAGGAAGAAA
44041 TGGAGGAGGA GAAGGAAGAA GAACAACAAC AACAGCCAGA AGAAGAAAGC AATGGTAATG

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44101	AGAACCAAGA	AGAAGAACAA	CAACAACAAC	AACAACCAGA	AAGAGAAGAG	GAGAATAAGG
44161	ATGCAGATAG	TGACAGCGAC	AGTGATAGCA	GCAGCAGCAG	TAGTAGCAGC	AGTAGCAGCA
44221	GTAGTAGTAG	TAGCAGCAGT	AGTAGCAGCA	GCAGTAGTAG	CAGTGAAAAT	GAAGCTGAAA
44281	AGAAGAAAGA	AGAGGAAGTA	CCTGCCAAGA	TTCAGAAGAG	AAAGAGGCTA	AGTGAAAGGC
44341	CATCAGAAGC	TGCTTCCTCT	CCCAAGAGAA	TGAGAGTAGA	AGAAGAACAA	CAACAACAAC
44401	TATCACCATC	ATTGGACATA	CTCCAGACTG	CAGTTGATGA	GATGATGGAA	GAAATTCCTG
44461	CGCCTGAGCC	TATCGTTGCT	ACAACCTCAC	CCAAGGCAGC	GACACTTGCA	CTCAAGACAG
44521	GATTTAGTTA	CTCTTCATTC	GTAAGAGGAG	ATGACCTTTC	AGTAGCTGGT	AATACTTCCC
44581	CTACTGAACC	AGCAGCTGTG	CCCGCTGCTG	CCACTTGCAC	TTCCGATGTT	GGAAATGACT
44641	TTTTGGACAT	GTTGGACGGT	TTACCTGGCG	ATATAGTAAT	GCAACCTGGC	GAATGCGACG
44701	TGACCGCAAA	ATTCTTTGAG	GGCATCACCC	TACCAGATGG	TACTGATAAT	GAATGCACAG
44761	GTTTCGATGA	TCTTCTTAAA	GCCACCGAGA	CTGATAACAT	TATAACCACC	ACATGCTTTA
44821	CCTCCCCGAT	TCACCTTCT	AGCAACTCAG	CCCCCAGAAA	GGATATTGAT	AATTGCAGTT
44881	CTATTAAGAG	GTCTAGGGCA	GGTTCACTTT	TTGACACTGA	TGATGATAGT	GAAACAAATG
44941	AGGTTGAAAA	GGAAGCCCC	AAACGTAAGA	AGCACTTGAA	AAAGAGGCGT	AACAAGTCCC
45001	ACCGTGGTTC	CTCTGGTCT	GCTTCTTCTT	CTCATTGTAT	GAGTAGTGAT	GAAGAATCAG
45061	AGGATGAAAG	GGATATGAAA	TCAACATCAA	AGGTTTCAAA	GTCACCAAAA	GCTCATGTTA
45121	AACATTCCCC	TAAATATGAT	GCTGTAAATA	GTGATGTAAA	TAACCTATAC	AACAATGTTA
45181	ATAGTACAAC	ATGCATGTCG	TCATCAGATA	GTGATGCAGA	AGCACAGCCT	AAAAGCCATA
45241	ATAAAAGCCA	CTCTCGTAAA	CACTCTTCTT	CCTCCACAAG	TGATAAGAAA	CAGAACCAAC
45301	AATGCTCAAT	CAATACTCAA	AATGTCAAGA	AGACTGTTGT	ACAGTCTCCA	CCTAGTTTTA
45361	GAAGTTTTAG	TCCTAAGAAA	GATGAGCTTG	GTGATTTCTT	GTCACGCAAG	CACACAAAGC
45421	CAGTTAGGCC	CTATAACAAG	AAGCGTGATA	ATGTTAACAC	CACTAATAAT	GTAGTACAGA
45481	GGTCTGCC	ACCGACTCAA	ATGATACTCA	ATCAATGTAC	AATAATAATC	TTAGTACTTA
45541	ACAAGAAGAA	CTATATTTTT	ATAATATTTT	TACATGTCTT	AATAACAAAC	AAAATAAAAG
45601	AAAACCAATG	TATTATATGT	TTAAAATCAA	CCCCATTTGC	ATGATTAAAC	TAACTATAGT
45661	GTGTAAGGAA	AGAAAAAATA	CATGATTATT	TCTGCCATTA	AAACAACAAC	AAAAATCTA
45721	AGCTTCTCCT	TTCTTTCTGT	GTCTTTGCG	ATTGCGGAGT	CTTTCTAAAA	CCACAGCAAT
45781	ACAAAAAACA	ACACAAATTC	TCTACTGCTC	TCCCTCACCA	ATCCCCCTAT	CGCCCTTATG
45841	CTCCTTCTCC	TCTCTATACT	TCCTCCCCAT	TCACTTCTGA	CTATCAATTT	TCTGATTTCAT
45901	TTCAACAACA	ATGCCACCAA	TACAATTACT	ACCCACACCC	CCCTCCATCT	ATGTCCTCGA
45961	CGACCTCTCC	ATCGTCTTTG	TGGGATGATG	ACGATGATGA	TGACGAAGAA	GACGAAAAAG
46021	ATGTCAAGCA	AGAAGTCTCG	AACCGTCCCC	CCATTTTTTC	GTACATGGAA	ACTGTATCTT
46081	TTAGTGATAA	CGATGAGGAC	GATAACAAGG	GAGAAGAAGA	ATGTTTTTGA	TCAAACCTTG
46141	ATATGTTTGG	TGATTTCAGT	AACATGCCAT	CAACTTCTAC	TGCCCCTTTC	CCTCCTCCCT
46201	CTACAACAAC	ACCACTTCCT	ACTCCTCGAT	CCATCATGGA	TACTGATTCT	GATGAATGTG
46261	ACGAAGAAGG	AGCAGCAGCA	GCATCAGCAC	CGTCTATTGC	CGCCTCTTCT	TCTATCCCTG
46321	TCGGGATCTC	TGAAGCTGAA	TTGAAAAAAA	TGGAAAAGAA	AAAGAGGAAG	GAAATTAAGA
46381	AACTCAAAAA	GATGATGAAA	GATCCTCTCC	CTCACCTATA	TGTAGGAGGA	GAACCTCCTG
46441	TCGCAGCAGA	TTATAAAACA	AGGGCAAACA	TTTCCCTTTA	TAAAGTTGAC	CCTAGTATCG
46501	ATATGTGCGG	TGTCGCCCTT	CCTCAATTTT	GCGCTGAATT	GCCCACCCCA	TCCATAGATG
46561	TGTATACTTC	TTCTATGTA	TTCTCTCTC	CCACACCTGC	CATGCATAAT	AAGAAAGGGT
46621	CCAAGAAATG	TCAATTCCTT	AAGGGGAGAA	AGGCTTTGAG	GAAATGGATT	CACGAGAATG
46681	TATGCATGGC	CCCTCCCGGT	AAAAGGGGAG	GTGTATTTTT	GGCTCACTTG	GAACAAAGAT
46741	TCTTGGCTGA	ACATGGAGAT	GAATACAAGG	TCCCAAGGAT	GTTTGTTTCA	AGAGTATTGA
46801	ACAAAGCTTT	CCCCAATCTG	ATTGCTCGTG	CAGACACACT	GTGCAGTGAT	ATGACATTCT
46861	ATACTAACCT	TTGTTGGATA	GTTAATGGAG	TTGTCGTATG	CTTTGATAAA	GATGATGGAG
46921	GAATACATGG	CGATGCGTCA	GAGTATGCAA	CAGGAGAAAA	TTTTGATACT	GTAGTGTTCC
46981	ACAAGAGGGA	AGAACAAAAG	ACCAATGGGA	GTGCCAGTAA	GAAGAGGCGT	CTCACGCCCTG
47041	ACACTAGTAA	TATGGGAACA	AGCACTGATG	TGCAAGAATT	CCAAACGATG	GGAACAAATA
47101	CTGATATGCA	AGAATTCCAA	TCAATGGGAA	CAAATACCAA	CCCCATAGAG	ACTTCATCAG
47161	TGGGTGTGAA	TACCAACCCA	CTTCCCAACC	CTCCCCCAAG	ATTGGTAATT	ACTCCTTTAA
47221	CGAATGATGT	ACCAGAATTG	GACATGATGT	GGCTTTATT	GCCTTCCAGA	GGAGGTGGAA
47281	ATTCTAGAAT	GAGTGCAAAT	ACAGGAACAT	CTCCCTGTG	TAACACCCCA	ATTCCTACCT
47341	GCTTCACAGG	AGGTGCGAAT	GTAGTAGTGC	CTAATGGATT	TGTCCCTCCC	ACGTTCCCTT
47401	TAGAATGTGA	CGAAGATGAT	CCAAGTATTC	CCAATTTCTA	CAATTACGAA	GAGGATAAAG
47461	TCTTTCATCC	ATTTTATGAG	TATATGGCCA	AATATCTATC	CCCTCTTGTT	CCATCATATA
47521	ACAAGGGACA	GACTTGTAAT	GTTGTCCAGG	AGTGGTTCAA	GGGATCCTTC	TCTCTTGCAA
47581	AGCGTAGAGG	AACAGTCCCC	AAATTCTGTA	GTAACATTTT	CCACGCTTTC	TTTTGTAAATA
47641	TGGATGTATG	TACTGCCATG	TGCAAATGGG	CGAAGACTGT	AATTAGACAT	GGACAATATT
47701	GTAATAGATG	TATCGTAAGG	AGGTCATGTA	CATCCATGCT	CGCATATCAC	TACATTGTTT

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47761	GCAGAGACGC	TTCATGTGAT	GTTCCCAAGT	GCAGGGAAAG	GGTTCGCAAC	GACATGGATG
47821	ACTGATTGAT	TGGTTGATAT	GTGACATTTT	CTGTATATTG	TGTAAATAAG	ATACCAATAA
47881	ACTAATGTTT	TATATATGAT	TCTATTTTTT	TAAAAACCTT	TAAAAATATA	CATATAAAAT
47941	GATGTATTTT	TGAAACTACA	CTCTGGCAGA	ATCAGACCAG	ACCCCTGACC	TAAAGCAGAC
48001	CACAGGGGAG	TCTTAGAGAG	GGGTGTGAAT	CTGGCTAGGG	GTTTCATCCCT	CAATGTTAAT
48061	CACACGCAAG	TAAAAACACC	ACTTCCTAGA	AAGGGAGGGA	AGGGGTGACT	TGGTGATATC
48121	ATAACTGGGG	AATTTCTCT	CCAGATATCT	GGCTGTACAC	GTGTGAGCGC	TTCTGGGCGC
48181	GACAAGAAAA	AAATTAGTGA	TATCATAACT	GGGGAATTTT	CTCTCCAGAT	ATCTGGCTGT
48241	ACACGTGTGA	GCGCTTCTGG	GCGCGACAAG	AAAAAAATTA	GTGATATCAT	AACTGGGGAA
48301	TTTCCTCTCC	AGATATCTGG	GTAAGAAAAA	AAATTAGTGA	TATCATAACT	GGGGAATTTT
48361	CTCTCCAGAT	ATCTGGGTAA	GAAAAAAAT	TAGTGATATC	ATAACTGGGG	AATTTCTCT
48421	CCAGATATCT	GGCTGTACAC	ATGTGAGTGT	TCTAATCTCA	TTTTTTATAT	AGAAAAATATA
48481	ACTGAATTAG	CTCTCTAAAC	TTTTCTCAT	TTCTTACTCC	TCTTTGTTTG	TATGTCCTAC
48541	TACCACTGTG	CATATAAGAA	CTGGAGAGAT	GGGAGTTTTA	AATAACAACC	CTTCTTAATC
48601	CCTTTTCATGT	TTATATTTAA	TAAATATAAT	CACCATGGAT	ATTTCAAATA	AGACATTATT
48661	TTTAGTAGTC	GGTACCTTTT	TTCTGACCAC	TTGTGCATCT	TGCAGTCCAA	CTCAAATCGT
48721	CTGGAACCTC	ATGGTAGCTT	CATTTGTTGG	ATTTCTAGGA	CATAAACTAC	TTAAAAACAT
48781	TACACCTGTC	AATCTGGATC	TTGTCGGAAA	AAGCTTCGTA	TTCTCTGCAA	GTTTAACCAT
48841	CTCAGAAGAA	GCCCGTTTAT	TGAGGATTGG	AAACGTATTA	AGGGACTATA	ATGGCAACAA
48901	TTTTGAAGAG	TATGAAGAAG	AAGAAGATAG	TGGTATTGAA	GAATAATAAT	AATAATAATG
48961	GTTTGAATAA	AATATAGAGA	TACATTTATA	TTGTTTTATT	TGCATTATAT	ATAAAAAAGC
49021	ACTACAAAAT	TTGTACACAT	ACATTGAGAG	AAAAAATTGA	TACAATTTCT	TCCTTTTTTT
49081	TACTGGTATC	TGATTTCTTG	ATATTGAGAG	GAGTTAGTAG	TAGCAGAAGA	AGTAGCACCA
49141	ACTCCGGCAG	CAGAAAGTTGT	AGGGATAGGG	GCGGTGGCAC	CGGTGGCAGC	GGCAGCGGCA
49201	GCAGCTTCAC	GGCGTTGTTG	TTGTTCCAGG	ATAATCTTTG	CGCGTTTATT	CATTTTCAGTG
49261	GTGCGTGTA	AGATGCCTCT	GTTGTATTGG	ACCACCTTAT	TCCTATATTC	TCCGATGTCC
49321	TTATCGCGCT	TCTCAAAAAA	CTTGCCATT	TCTCCACAAC	GTTGACGGGC	TGCCCATGCA
49381	GTCATAGCCA	TAAAATCAAA	TTGGTCAGAG	GTGATATTAT	GGTTGTTTAG	AAGGTCCACA
49441	GCGTAGGCCA	TACAGCTAGC	GGCACGTTGA	ATATTGGAGT	ACTTGCTGTT	TCTTGGTTTA
49501	ACGGTATGGA	TCACCTTACT	TCCATCATTC	AAGAATCTG	CCTCTTCTCT	GTGCAGAAGA
49561	GATGTGCCTC	TGCTAACTGT	CCCGTCGTCG	AGGACAAAAG	CAGGTCCAGG	TATGGGTGTT
49621	TCGCAATCTC	CGTAAGAAGT	GTCAGCAACC	GTGAAGTGGG	AAGGATATAG	TCCATTCTCT
49681	CCAACCTCCAG	AAGTGAGTGC	AGCGCTATAA	ACTTCTCCGG	TGATTTGGCG	AGTGACTGGA
49741	TTACTTAGCC	CTGCGTCAAT	TTCAGACATA	TTTCCTTCTT	CGGGTGTGGG	AAGGAAGGGC
49801	CTAGGTGGGG	CGAGAGTGTC	GTTGTTTCTT	TCAGCCGTAG	TAGTAGCAAG	AGATGTGACC
49861	CAAGAATATT	TCTTGTTCTT	AGACTGTCTT	CCAGAACCGT	CGTCGATAAC	AAGAGATGGT
49921	TCGTCCTCGT	CACTGCTACG	GTTGCCATT	TGGTTCTTCT	TCCTCTTTGA	ATCCTTCTTC
49981	TTAGACTTGG	ACTTGTTCTT	GGGGCCAGGA	ACAGGTATAA	CATCCACATT	GGGTGTAGAA
50041	GACATCCTCG	TTCCAGTAGA	TTCAGTCAGA	GATGTAAGTG	CTGGCACGGG	AGGCATGGCC
50101	GTAACAGAGA	TACCTTGTGG	TACTCGGAAC	ATTGCAGAAG	AAGACGTAGA	ATTAGAGTTG
50161	ATACTTGTA	CAGCAGAAGC	AGAAGTCCGA	GAGGCGATGG	CAGCAGCTCT	GGCGGCAGCA
50221	ATCATAGGGG	CTGTAGTGGT	GCAAATCGGC	AGAGTGTTGG	ATGAAGTCGT	GGCAGCAGAG
50281	GTAGAGTTGA	TGTGAGACAT	CTTGATTCTT	TGGTTGGTTG	GTTGGTTGTG	GACTATTGTG
50341	TTCTCAGAGA	GGACTTGTAG	TCGACTGTGC	TCTACCCAGA	TCCACAGCCC	CTTTCATATC
50401	CGATTTTCGG	GGGTTGCCAG	ATACTAATAT	ACTCCTCCAC	GCCCTCTTCT	TGCGCCATAT
50461	CTATAAGGGT	CGAAAGTTGT	ATACCTTGAG	TTGATCCGGT	TATAACCGCC	ATTGTTGGGT
50521	CTTTCTGAGA	ATCGAGAGTT	GCGATCACGG	CATGGCCTCG	TGGGGGAATT	TTCATTGACG
50581	TAAGCAGTAA	CGTCAGAAGA	ATTGTTGGAG	CGGGGTGGT	TAAAGTGCCT	CTGGTGTGG
50641	TGGCGGTGTT	GGTGGTGGCG	GTGGTGGTGA	GCAGCAGCAG	GGGCGTCGTA	GTGTTTCGTAT
50701	TGCTCACAAT	AATAGTCCTT	GGGCACTTGC	ATTCTTCTTG	GATGAATATA	TCTTCTCTT
50761	TCTTCGTATC	TGGGTTGCTC	CTCTCTTTTT	ATGTGTTTCT	TTTTTATGTG	AGTTACTCTG
50821	TCCATCTCCA	TTTTCTCAGA	ATTTCTTCCC	CCTCCATTGA	CGTCATCCGA	ATAACTCAAC
50881	TGGCGCCGGT	GATACTGATG	ACGTCTTATT	CTTCGGACCT	TATTATCCCC	TCCTTCTGAA
50941	TCATCAGATG	ATTCAGAGTC	AGATGAATCA	GACGAATCGG	ATGAGTCAGA	GGAAGAAGAA
51001	GAAGAATCGG	ATGAGTCAGA	AGAGTCCATG	GAGCCACTCC	CAATTCCACT	ACTAAATTCA
51061	GCTTCCAATT	CTCTGACGAC	ATCTATATTT	TTAGTATCTT	TTTCTTCCAC	ATCTTGATTC
51121	GTATTAGGGT	ATGTCACACC	AGTTTCGTTG	CTTTGTTCTG	CGAGGATATT	TTCGAAACCT
51181	TCAAGAAAAG	GAATGTCAAT	AAAACCTTCC	ATTTCTACGA	TCTCCCCTTC	TTCCAATTCT
51241	TCCTTTTGT	TCTCTTCTTG	TTGGTTTCTT	GAGACGGTGG	TTTCAGTAAA	ATTTGGGTTA
51301	TCTGTAGATC	CAAATCCACC	AGTTCCACGC	ACGCTTCTTG	CTTGATTTTT	GTTGTCTTTT
51361	TTAGAACTAG	AGTCAATAAT	CGTTCTCTCT	CCCGTGGTTT	CATTAATATA	CACAATCTGT

51421 TCTTCCTCGA CATCACAATA TCTTAAGAAA ATCAACTGGG CAATGCTGGT TCCCTTTCTG
51481 ATTGGCACAC TTTTTTCTGC ACTATGGTTG CGCAGAATCA CTTTCAATTC TCCCCTATAA
51541 TCCACATCAA TCGTTCCAGT AGGTACACTA GTGTTGTTCT TCCATGTCAT CCCAGAACGT
51601 GACACAATTT GTCCATAACA GCCGTCGGGA AACTTGTCTA TTCCATATCC AGTAGAGATC
51661 TTGGCCAGTC CCATAGGTTT GATATCCATT TCTTCAGAGG GAAATAGGTC GTAGGCGACA
51721 GAACCGGGCG TGGCACGTCT GGGCGGAAGT GCAGTTTCCT CCCCGGGAGG GGCGAATCTC
51781 ATAAACACGA CAGATGCAGA TGAGTCCATG GCTGGATACA GGGAGTACAC AGTGGAGACG
51841 GGATGTAATA AGTGTTCAAC GTCTGGAGGA CAAGTGAGTA CCTTCCTCGG TTCCTCCCAC
51901 CCTTTTATAA TCGTGAAACC CCCACACCCC CGCTAAGGCA GTAAAAAATA TTAGCCACC
51961 ATCACCCTT GTCTTGAAG GAGGAAACTA GAAGATAACT TTTATCATGG CAACATTTAC
52021 TGAACAGGAT CATAAAAATG CGTTTTTATA TGCTAATGAG AAGCTGAGGC AGGAAAGAAT
52081 ATACAGACTT AAAATGTCTG AGCCTTCAGT TTATGCTTTT ATTGACATAA AAGAAATAGA
52141 AAATGGTTGG GAAAAAGAAT TCGGGCTTTT AGTACAACCA GGACAGAAAT TAGCTCCTTT
52201 CAGGGATATT TCTTATGACT CAAGCAAAC TGAATTGTGAC GCATTTTCTT GCATACCTTC
52261 AGATATACTT CATTTCTGATA ATGAAAAAAG AGTAGGAGAG TGCAACTTTG CCGAACACAC
52321 CTCTGTCTCA TTTCTGTCTA AGAACCTTGA GGGAAAAACA TTGCGCCATT TCACGGCATG
52381 TGGTCCAGGG TGTTACCGGA GGTACAAGCA AAGAGACCCC CATACTGGTT TGCCAGTAGC
52441 CAGAGGCGTC CTGATGCAAG ATCACGTTGA CCATGAAACT GGAAATAAAA TGTGTGAATA
52501 TCTGAACCAG AGCTTAGTCA TGTGGGCTGC TGTCCCTTGG ATACGACCTG GAGACCTTAC
52561 TGAAGGTTAC AACACAACAC ACGTGCCTGG CTTTGCATTC AAGGAGGATG ACGAAAGGGA
52621 TTCAAAAAGA GTTAAATATG AAAATGTGGT CATTTCAAAG GCTTATTGTG ATTTCTTTAA
52681 ACAGATTAT GACGCGACT CTGGCTCATG TTATCGATCT GGATGGATGA AATTGTGTTA
52741 TTTAATGTTT GGGCAGTATT TTACTAATCT TTCTTACAAT TTAGCTAACC CAAAACCTTA
52801 CAATTTAACT GGAAATACAT GGTCTGATGT AGTTTCTGTA TTGACAGATA ACCCTATTGT
52861 AGATGCGGGT GCTGCTCCGT CCAGATCTGA AATGGATGAA ATTATCACC AAGAAAGTT
52921 CAACGTATTC CCTTCTGAGC AGACATCTGC TCGCCAGAAA GCAGAGAATA TAATACGTTT
52981 TCAGTACGGA GATGGTGTAG AAATAGACCC ATCTTCTGTG GATGCTTTAA TGCAGTTTGT
53041 TAATAGGGAA GGTGTAGTAG GAACAGAGAA AAAATCCGAC CGCCTCATGC GAGTGGCAGA
53101 CGCTGTTATG GATGCGGCTA TGCGCCTTCA AGTCATGGGT CTGGACGACA GTCAATCTAG
53161 ACGATTATTG TTAAAAAATA TGATTAAAAT GAGTAGAAAC AACCAGAAAT ATGCAAGACA
53221 TTTTTCAGT TCTCTCAAAT TAATTGGAGT AACTTTGGCC ATAAAAAGAT GTGTTTTCTC
53281 TAAAGGCGCT TCAGCTAAAA GAAAGGAAAC GGCCATTAAT AATGGCGAAC AGCATAGAA
53341 AAGCAGATGG TCACCCGAGA CGGTGACAGA AGAAGATGCA CTTTTATTGT CAAGAGAAAA
53401 TATCACTGAA GACCCAAAAC ACCCTGCGCC CTTTGTGGAC ATTTTACACT CACCAGATAT
53461 CAATTCATCT ATCAAGAGCG GTTCTTCTTC CTCAATATGG AACGATATAC TTTCAAGAAT
53521 TTCTTCGACC AGAAAACCTGG AAGAAAAGGC GAGTGTTTTC GTTAAAAATC TTGTGGTGAA
53581 AGTAGTGAGA CAGTTCTTGG ACATTTTAGA AGGTAAACTG TTTTCGGACG GATACGAATG
53641 GGACGATAAT ATTCTCTGTA TGATAGGCGT GGACCAAATA TTGAGAGAAG TCATTAAGGC
53701 GGCCAGTAAT ATGTGCGCTA GATTTGCCCT CTCAGCTCTG GAGTCTAGTT TGGTTACTGG
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53821 GTTCTCCGTA TTCTTGGAGG AGTCTGTAT AGAATTTGTA GTTGCCGCAA GCCTTCGGCT
53881 AGCGATACAG GCATTTGCCG ATCTGGCAAC TCTTGCCGCG TCAGCCTTAA CCGTTATTGG
53941 AATTGTTATA TTCGTAATAC AAGTACTTGG GTTGATTTTG GATCTTGCGC TAGGGTTAGG
54001 TTGGTACGAT CACATTTTTA GCCCAGAGGA TTTAAGAAG CAGGTTCTAG TGTTTAGGAG
54061 AGAGTTTGCA AAGGCAGGAA ATGTAGATGT GGGTGTAGCT CAACCAGTCA CCCCTGAAGA
54121 AATCGTCGCT ATCAACGTTT TCCTTCAAAC TGAAGAAAAC GGGGAAGAAA AGAAGGAAGA
54181 AGGAGCACGA AAATCAAAGA TTGATTTTCT TCAAAAATAC TTCCATTCTA CTCCTTTGAT
54241 GGGAAAGAAA AGTAAGTTTG TCTACATAA AGAAGCAGCT CAAGAATACT TGGGAGGAAG
54301 AACAATGAAC GCTTTTGGGC AGCGTATAAT AACAGCTGCT GATGATAGTG ACACCACCAC
54361 CACCACACAA GAGGGAAGGA GGGATGACGA AACAGTGAAT AAGAAAATGA GGAGTATTAT
54421 TCTAGAAACA GGTCAAACCT TTAAGGATTA CTCGTCTGCT GTTAACTATA ACGCCTCCCG
54481 TCTAGATTAC GTGGGAGAGG AATGGGTAAAG AAATACTGCC CTAAAAGAAG AGACAAGGAG
54541 CAACACTACT AGTGATAACC TATTCAAGAA AACTGTTTCT CTGCTAGTA TGGCCGGCGC
54601 ATTTCTGGTT CTAGGAATAG GTGTATTGGT AGCGTCCCAT ATTACACTTT TACGTTTCAC
54661 CAATATTGGT CTAGCTTTTG CGTTCGCAGG TCTCCTAGCA TTTATTGCAC TTATGAGTAT
54721 ATCATATAA AACATGAATG CTATGGGTGT AGTGAATTCG GACGCAATAT ACAGGTTCTAC
54781 TGCTCTAGTT GGAGATATCA AAACAGACCC CAGAAGAGTA GGAATGGTCC AGCGCCACGT
54841 AGGTGTCGGG GCTAAATACA ACATGATTAC AGATTTCTGTC TCTCCAATGT TAGACGAGAT
54901 CGAGAGTGAC TAAAAAGTGA GGGTTATAAC CCCCCCCCCA ACAAAGGCTT TAAATTAGAC
54961 TCAAACCAA TTCATAATCA TTGTGAAGAC ATCGACGGTC GAGGAAGGTC CGTGCTCAAA
55021 AGGTCCCAA AATATTCTCT AATCAAAAA TACCATGGAT TCGTTGACTA ATACAGTAAC

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55081	ACTCCTCGTG	AATGACCGTC	TTGGAAATCA	TCGAACAAAC	AAACCAATCA	CCGAACAAGA
55141	TGTGGAAAAT	ACTCTTAACC	TTAACAGTCT	AGAAAGGGCA	AGTCTTTTGA	AGTTATATTC
55201	TGTTTTTCATC	AAAGAAATGC	AGTCCTATTTC	TGGATGTATA	CCCAAGAACA	AGTACACGAA
55261	TGTGCAAGAA	ATATTCGAAG	ATGGACTAAT	TACTTTTCGAA	TGGAGAGATG	GAACAAAAGT
55321	ACACAGATCA	GTTTCACCAA	GTTCCCTTAT	ACCTCTTTCT	ACAAAAAAT	CGCCTCGGTC
55381	CTCACCTTCC	CCTCCTCCAT	CGATGCCTTC	TATTAAAGAA	GAAGAATTG	AAGAAGAATT
55441	TGAAGATGAT	GAAGAAATAT	ACGAAACAGA	TGAAAATGTG	GAAGATTTC	TAAATGGTGA
55501	TGGAGAAGAT	TCAGAAGAGG	AAGAAGAAGA	AGATATAATT	GTTGATGACG	AAGAAGAAGA
55561	GAATGAAGAG	GGAGAAAACA	AGTACGTTCT	CGCATTCTCT	AATCATCTGA	GGCGCCAGAC
55621	TGCCGCCGCT	GCCGCCGCCG	CCGCAGCTGC	TGCTGCTGCT	GACATTGAGA	AGAAGGACAA
55681	AAACCACGCA	GTTAGTGCGC	ATGACTACAC	ACTGTCCGCC	CTCCAGCAAC	AGCAACAAAA
55741	ACTGCTCCAG	CAACAGCAAC	AGCAACAACA	CCAGCAGCGC	TCCTCATCTG	AGAAGGTCAC
55801	CTCCACACCC	AACAAATTCA	ACAAGTTTTT	ACTGCCGAGT	AATGGCTTCT	CAGAACAGAC
55861	CGAGCTCTTT	GTTTGTTCG	ATGTGGATAA	AATTGCGCAA	TATAATGGAC	TCGTGGAGCT
55921	AGACATCTTA	CCCATTGTTG	CTGAATACAT	TATCAACGGC	CTTGGTCTGA	AATGCAGTAT
55981	GGAAACTCCC	CCAGTGAAAC	CGTGCCAGGAG	AAAGGAAGTG	AAAGATGTGT	GGTGTACAGC
56041	TAAAACTAGC	TTTGAAAATG	ATGCTGTGGA	AGATAAACAT	CTCGCATTCTG	CAGAATCGCC
56101	TATACTTCAA	AGGCCTAGAG	ATTTCCCTAT	CCCTAAAAAA	ATCACC GCCT	ATTTTTGT TT
56161	AGACGATTCT	GTAGACATTA	AAAACCCCTG	GGGTTCGTGT	CCGCTTTTGA	AAAGTGGATC
56221	AAACTTTTGA	GTGTCCGAAT	ATTCGCGTCA	TTTTAATGAA	TTCTCAGGAG	TAAAAAATGA
56281	CGATGACACG	TCTTCAAACA	CTTGCTTTTAT	ATACTCTCAA	AAAAACCCCA	ACATTGAAAT
56341	TGTATCAAAA	TTAAATATTG	AATTTGAGGT	AATGATGGAG	GGAATTATAA	CCCATAGAAA
56401	AGATTTGTTT	GAGACGGGCA	TTTTGAGCGA	TTCTTCATTA	GCTACGGCTA	TGGCATTTTG
56461	CCACCCAAAA	GCTAGAGTTC	GAAATGTTGC	ATTGTTTTAT	TTTTCTGTAT	ATTTACCATT
56521	CTCTAAAAAT	ACTCGCAAAG	AAACTATAAA	ATGTTTCAGAG	ACGGATAAGG	TACATATTGG
56581	TTCAGACGCG	ATCTTTTCTC	CCCCAAGTGA	TAATCCTAAT	ATAAGTGCTC	ACCAGAACAA
56641	TAACAACAAT	AATAACAATA	ATACCAGTGT	GAATATCGAG	GACAGACCTA	TCCGAAATAA
56701	TAATATAAGC	AGAAAAATGA	CCATCACAAA	CTACCAATGT	ATGGCATGCA	AGGAAAGATG
56761	CACAAACAAT	TGCACTAACG	GTAACATATC	CGATCGTGGT	AACCAGCACT	TGTCACATAG
56821	TGTAAAAGGG	GAAGATTTCT	TTAAGATTTT	AAATAATAGT	AAAGTAGATT	CATTGAAAAA
56881	ATTGAGCAGA	GTAAGTATTC	CCGCTCCTCC	CTCTGGAAAT	TATACATCTA	AGTTTTGTGA
56941	TAGAAGCTCT	ATGTGCCATA	GCTTCTTTTG	TAGAGGGATC	GAACCAGTGT	CTACTTCTTT
57001	CTCATCGGAC	AGTTTTGAAA	AGACTAACT	TGTTTTGTAT	GGTAAAGTCT	TTGACGTTAT
57061	CAATAGTTAT	TCTGCCATAA	AAACTTCCCA	TAATAATAGA	ATCAGGGTCT	TTTTTAAC TC
57121	TGAGGAAAAA	GATAATAAGA	CTATCCCCTC	TAGAGCCGAA	AGTGCAAAAA	ATGCATTCAA
57181	GGATATACTT	GTTCACGAAT	GTAATAAAGA	ACGAGCTGTT	TCATATTTTG	AGCAAAACAA
57241	ATTATCCTCT	AAAGATGGGC	ATCTATCTAA	CAAGTGGTGG	ATCGAACTTA	ATGACTTGAA
57301	CATTATGTTT	GAGAAACACG	TGGAAGATTT	TTACAAGAAA	TGTTCTAAAG	TAAATGATGC
57361	AGAATCTTTA	AAGGATATTT	TTAATGATTT	TGAAAAAACT	TGTGATAAAT	ACAAAAC TGC
57421	CAAGAGGGCA	ATTATTGGAG	CACAAGACCC	TTCTACTTCT	ACTCCCTCTA	AAAAGGAGAA
57481	TGGTATCACT	AGGATTATTA	GTACATTATC	CGAATTTTCAT	TCAAAAAGATG	AAGCTACAGT
57541	AAGTGCCCTT	CTCGACAAAA	CAATGCTCTT	GGGATCGAGG	ACAATAATGT	CTGGTGT TAG
57601	ATGTGTTATA	CGTAACAATA	GTGTGTTTTT	GGGCTTTGAA	AATAAGAACA	CTAATAATAA
57661	TTGGGAACCT	GAGATTAGAC	ACTATGTCAT	CTCTATGGGA	GGTGCTGCAG	TGACAAAGAT
57721	TTCCGATGAA	GATTTGGAAC	AATTCACGCC	TGTAAGAGGT	GCTGTCTCTG	TCACTACAGC
57781	ACCTAATGAT	AAGCTACCTG	TAGGGGCACA	TCAGACATGG	AAGGATGAAC	AAACACTAAA
57841	AACAAACACT	AAACGTAATA	GTCTATATGA	CTCTTACAAT	TCAAAAAGGA	ATAATAGGGA
57901	TAATAATAAA	ATAAAAAATC	GTTTCATTAAA	ACTATCAGAT	TTTAATTGGA	GAACACCCAA
57961	TATCTCTATT	CAAGAATTTA	ATGCAAATAA	AGATGATGTT	AACAAGAAGA	GGTACGCAGA
58021	AGTCGTGGCG	TCAGCTGCTC	CAAAGTCACC	TTCACCAACG	AGCAGCAGCA	GCAGCAACAG
58081	CAACAGCAGC	AGCCCTCCTC	TTTCACCGCT	CTCACCAACA	GTGAAGAATA	GTAATAATAA
58141	ACCATTTGAT	ATTCCCTCCC	ATAAAGAAT	GACCACTACT	GCTGTTTGAC	CAATTTATGG
58201	GTTATTTTAT	AATGTTGTGT	GATATTTTAT	ACAATAAAAA	TATATAAGAA	AACAACCAAA
58261	TGATTTTGTA	TATCCTTGTT	CTGTGTTGGG	CGGAAATTCC	TCCGCGCCCA	TTATGATGAA
58321	AAAATTGCTA	GAGGCCTTGA	ATCCTGGTCA	CGACAAGGTT	AACAACAAAA	AAAATTACCT
58381	GTATGTGCAA	GTCATATCCT	CCAGTCCCAC	GCATGAGAAC	CTGTTATTGC	ACCACGATTC
58441	GTGTAACAAA	GTCGTATCTG	CACATGTGCA	TAAATTCCTT	CACGCTAAAA	TGAACGACAA
58501	AATTGCCGGG	AGCAATGGGC	GTGAGAGCCG	GTTTCTGGAA	AACCCACCT	CCGTTCCACG
58561	CACTACCTCA	CTATTGCACC	ATTTTTTGGT	GTATAAAAAA	GCACGGAGAG	GTAGCTAAAA
58621	CATCCACTCG	CAGAGACATC	ACCGTCAAGA	TGACGTCTCC	TACTAGTGCT	CTCCGCGTTG
58681	CTACTACTGC	CCTGCTGTTT	GCTGTGGTGG	TTACGGCTAC	TGTGATTCT	GAAGCTGGGG

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58741	GAAC TAAGAT	AGAC GACCGC	TGCG CCTTCC	CGCC ATGTGA	CTACT TCCCG	GAAC CTGAAT
58801	GACG TGGAAG	AAGAT GTGT	AGAG CTGCTC	GAAG GGGGAA	CAACA ACAAT	AACA ACGGAA
58861	CCCG TGATGG	AGCC AAAAGT	TTTGG CGAAA	TCGCA AATGG	ACTG ATTGGG	CGTA AGAGGC
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58981	ACCCT GAGCA	TCCC ATTGGA	GGGCG TCTAC	CACGT GAAGC	AGCT CCTCCA	CTTA AAGGTG
59041	CACT TGGAAG	TAAA AGGCGT	GAAG CAGCTC	CTCCA CTTAA	AGGT GCGCTT	GGAC GTAAGA
59101	GGCG CGAAGC	AGAAT CCTTG	GAGGA AGAAG	TTGT GTCTGC	TGAAGA AGAA	CGTGA AAAAGC
59161	GCGA AGCAGC	TCCCC CACTT	AAAG GTGCAC	TTGG ACCTGA	AAAG CGCGAA	GCAG CTCCCC
59221	CACT TAAAGG	TGCA CTTGGA	CGTA AGAGGC	GCGA AGCAGC	TCCCC CACTT	AAAG GTGCGC
59281	TTGG ACCTGA	AAAG CGCGAA	GCAG CTCCCC	CACT TAAAGG	TGCA CTTGGA	CGTA AGAGGC
59341	GCGA AGCAGC	TCCCC CACTT	AAAG GTGCGC	TTGG ACCTGA	GAGG CGCGAA	GCAG AATCCT
59401	TGGAG GAAGA	ACTT GTGTCT	GCTGA AAGAAG	AACGT GAAAA	GCGCG AAGCA	GCTC CCCCCAC
59461	TTAA AGGTGC	ACTT GGACGT	AAAAG GCGTG	AAGC AGCTCC	TCCA CTTAAA	GGTG CGCTTG
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59641	CAGC TCCCCC	ACTTA AAGGT	GCTC TTGGAC	GTAAG AGGCG	CGAAG CAGCT	CCCC CACTTA
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59761	GTAAG AGGCG	CGAAG CAGAA	TCCT TGGAGG	AAGA ACTTGT	GTCT GCTGAA	GAAGA ACGTG
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59881	CTCCCC CACT	TAAAG GTGCA	CTTG GACGTA	AGAG GCGCGA	AGCAG CAGCA	GCAG CTATGC
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72781 TTGAGAGAGG AATATTCCAC ATTCACAACC CAGTGTTTTT CAAAATAAC AGCTGAAAAT
72841 AATAGTATTA TGCGTATTTT CCCCAGAGG ATTGTAGAAG TATGCAAGAG TAAGAATCTC
72901 AATTTAATGG GAAAATACTT GTACATTATA ACTACCGCAC AAACAGAAAT GGAAGATCGA
72961 GTGAAGAATA TATTGTCTGG TATTTTCAAT CAAATTGAAG AGTTTTCAA CAATGTAAAA
73021 CAACAACAAC AACAACAAC TGCTTCAGCT TCTTCTACTA ATCCTCCTCC TCCTTCTACT
73081 CCTTCTACTA CTCCTCCTGT TACAAGCATG CAAGTTGTG AGTTGGATG TCAACGTACC
73141 CTAGAAAAGG CTGCCATAGT AGAGGCAATT ACTCTGGCCA ATGCTGTACT TCAAACTACA
73201 AAATCCGCTT CAGCTCCTTC CACGGCGGCT GAGCGAGAAA TTGCTCTAAA GCTAGAGAAT
73261 GGGAAAACAT CTATCCGTAT GGAAAAAGTG GATCTAAGTT CAGGAGCTAC TGGTGTTCCT
73321 GACCAACAAA AATGGATCGA CGAAAGTACT TCCAAACAAG AATTGGAAGA TTTCAATTGA



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73381	GAAGAAAAC	TTGTAGAAAC	TGCACATAAT	GAAATGGATA	TTGGATTAAT	TTTGGATGCC
73441	AAGAAGAACG	ATCCGACCCG	TGATGCCAAT	CTTAGGCTCG	TGAAACCTCA	TGGAATAAAT
73501	GTGCAGTCTT	TCCCATATTA	CGTACTCCGC	ACATGGCTAG	GAGAAACAGA	TATATTGGAT
73561	GAAGATACTG	TACATCCTGA	ATATTTCCGC	CAATACATTG	ATCGCAATTG	GAAGGTGGAA
73621	GAACATGAGC	GTGAAGATAC	ATTAAAGGCA	CTGGGTGTTT	CTTTATCAGA	TACGTTGGCA
73681	CACATCAAGG	ACTACTATTC	TCCCAGTGTC	AAAAATGATG	CATCAAAATC	AGTACCATTT
73741	GCGTTGAACA	CTCTATTGTA	CAACATATTT	GCTATCGACG	GAGGAATGAT	TTCTAGCCTT
73801	TCAAGAACAG	CCTTTATTTA	CCGTAAATTT	TTAAGGCAAT	CTATGACAGA	TAAAGAGGTT
73861	GCTCAAGGAC	CTGTTGCGTC	TCAACTGTGT	GAAGCGACAA	TAGCGTCTCT	TTTCACGGCA
73921	TGTAGTAACC	TTCTTCGATC	GTCTCCCTTA	GCCGATAAAG	TAGAACCACG	CCTTCAAGAA
73981	AAATTAGCGG	CCGCTGCTGC	TGTAGACACG	TCAACCGGAG	ACATGTTTCG	TATACGAGTT
74041	TGTCATCTCA	TGTACAATTT	TATAGTGGCT	TATGTGAACC	TATGCAATAA	TCGTATAAAC
74101	TATACGTTAA	ATGTATTGAG	AGCGTCGGGT	CTGGCAAACA	AAAAAGTCGT	GGCCGGTAAA
74161	ACAATAAAG	GGCATAACATC	TTCTTCCCAC	CGGTTTGGAT	CTTATGATGT	CACATATGAT
74221	TTTTTCAGTAT	TGTACAAGAT	TCTTCAACTA	CAAAAACAGA	ATATCTCTTT	ACTTTTAGAG
74281	AAGGGTTTTCA	ATGCATGGGA	ATCGTGTGTT	GCCGCCATGG	CAGCCTTCAC	TGCCGACCCT
74341	TCTCTCTCCA	TCTCAGATGC	CGACCAATCC	ATACTCTTCC	CACTAGAAGG	GGGAGAGATT
74401	GTTATTGAAA	AACATGAAAA	CGATGCAGAA	AAAAATGTCG	ATATGGTTCA	AGAATTGTGG
74461	AAGGAACTG	CACCTACACT	CATGGCAAAG	GACTAAATT	CATACTACAA	CTGGTTCTATA
74521	TACAGTAAGG	ATACCGATAT	CGAAAAGTTG	GCGAGAGTGT	GCAGGATGAT	TATCGGTATA
74581	GTTAAGGCTG	TTCTCAGATT	AACAAATAAA	GCCGAGAGTT	TAGTAGACAC	TAATGCTCTT
74641	TCTGATATTT	TCAAGCTACC	TGTGATTCCA	ATTGATGATA	CCAAAACCTCT	GGCAATAAAT
74701	ATTGTGGTGT	TCACTTTGAA	TAATGTAATT	AAACCATGGA	TGGTTTCGTT	CAAGCAAATG
74761	TTTAGACAGA	AAGACGGGGG	AGTTTCTTCA	GCCTATTTCT	CGTTTCAAAA	TATCCAACAA
74821	CAAAAACATC	AACAAACTGC	TTCCATTTTA	GATGCATGGG	CTTGCGCGCC	CGGTAAGTTA
74881	ACAAAGGCAG	CACACGTGTT	TATTTTCAGGA	TATGAAAATC	ATATCAAATT	AAAAAAAGAT
74941	GATCTTTTAT	GGGGTGCTTC	AATGAAATTC	CCTGCCGACG	GACGAGGCAC	TGTGGTCGAA
75001	GGATGGGCCC	AACAATACAA	TAACGAAAGC	GTATTGGAAG	ATTTTACCGA	CTTTTCAATT
75061	GAAGTAAACC	CACCTGCCTC	TGGACTCTTA	ATACCGCCAG	ATCCTTTACT	TCTTCCATG
75121	TTCGGTAAAG	GAAATGGTGG	AAGCAGCAGC	AGCAGCAGCA	AGGATAATAC	AATATTGGA
75181	AAGGGAGGAT	TAATTTTAAA	CCGCCAAGTT	GTTGGACAAG	AACAAGCACC	ACCAATAAAC
75241	ACGTCGTCGG	ATACTAAAAA	AATAAGACGT	GATGCAAATA	TTGAACCAAT	AATAGGGACG
75301	CCTTATAGTG	TAATTAAGGC	AAGTAAAGGA	GTATCAATTT	CAGTACTGGA	TGATTTCAAT
75361	GAGGATAGTC	CAGAAGATTT	CGCCCTTAAA	ACTTCCATCA	TCAATGATGC	CATACGAGAA
75421	ATAGGGCAAC	GCATGACTTA	TACAAGACCT	ATATTTGATC	ATCAAACACA	GAAAAATATA
75481	CACTACAGTT	CACCTAAAAA	TATTTCTCGA	GGATCAGATT	TAAAGAATGG	ACAACGTTCA
75541	GGACAATCTT	GGGCTCCTTC	TTCATCATCC	TTGACTCTGG	CCTCCGATTG	GAATCTACCT
75601	TCTCTGGAGC	TTTTATATAG	AGAACTTGCC	ACAAAACAAG	TAGAGAAGGA	AGAAGAAGAA
75661	AAGAGCGAAA	GGGAAGAAGA	TAAAGGACAA	AAACTTAATG	AAAAATTATC	ATTTGTCTGT
75721	AATAAAGCTA	TCGGAACAT	CCAACAACAA	CATCAATATT	CTGAAAGGGG	AGGAGGAATG
75781	AAGAGGTATC	AGCAACACTC	TGCTGATCAA	GCTAGTAATG	GTGGCATAGA	TGATATAGAA
75841	CTTATGAATA	GTAAGATGC	TACTTCCATG	AGAAAGGCAA	AACTGGCATT	AGCCGTTACT
75901	AATAAAATTG	CAGCAGCAGC	AGCAAGGGAT	GGGGAAAATT	CATCAGCTAA	ACCGTCAAAC
75961	TTTGGCAATA	GATTGGATGA	AGCAATAAAC	CCTGGAGCAC	TTTTATTACG	TAGAGGAGGA
76021	GGAGTAAGAG	GAGGACAAAC	ACCCAGAGT	TCAATGCTAA	CAATGTTCCG	TCCTGGACAA
76081	ACTGGTGGCA	ATAGTAGTTG	GTGGACTACT	AATACACCCC	TTATTCAACG	CACAACTAGT
76141	GTTGGGAATA	ATTTAGTTGT	GCTTGATCCC	AACCTATTGG	ATTCACACCC	TCCTACATTT
76201	AATTAGGAAT	AAGGAATTAT	ACACATTTAT	TTGTATGTTT	TACATGTATT	TTATTCAACA
76261	ATAAAGGTTA	TGATCATACA	TAATCAACTG	GTTGTTTTAT	TACATAGTTT	CCATTACTGA
76321	CCCTTCCAAA	AATGAATTTT	GTACCTCCGA	ATACAATTTT	TTCCCTCGGT	TTACAAAGGA
76381	AATTGCACGG	AGCGAATCTG	CTCACCCATT	CACCAACAAC	ACCCTCATTA	ATCTTCCCAT
76441	GAGTGATGTG	AGGATTCAGT	CTGTTGTCAG	CGAGTTC AAC	ATTTCTCCCT	ATTGCATCTG
76501	AAATGTGTTT	CATTATTCGT	CTACGCAAAT	CGAGTGCATC	ATCTCCAACA	CATACTTTGG
76561	ATACGAGAAT	GTTGTTGTTT	ATCCCAAACA	ACTCAAATTT	ATCCCCAGTG	TCGATTTTGA
76621	TAGCTGGTGC	AAAACAACCTC	CCAAAATCTG	TTTTTCATCAG	AGTATTGTAT	TCTTCCATAT
76681	TTCGCAAATA	GAAAACAGAA	ATGGTCACAT	GTGGAGGCAA	CTGAGAAAAT	GATTTGGAGA
76741	CGTGTCTTCT	AGATAATAAT	TTTCCCGTTT	CTGAATAGAA	AGGAAGTAAC	TCTTCGCTGT
76801	AGAGAGCAAA	GAACATTTTC	ATTTCTTCAC	CTTTAAAATC	AACTTGATTT	ATAGTGAAGA
76861	TTCTATTGTT	GTGTTTGATT	GAAAATTGTT	TCACCACTTC	AAACATGCCA	TTGATTTGTT
76921	TGTACATTTG	CTTGACTGCG	CATCTTCTTT	GCACCTGTGG	TTGAGTAGAT	GAAGGGGAGA
76981	TTTGGTGGCC	ATTATCTGGG	TGGTATCCAT	TCAATATGTT	GTAGCCGGCA	CAAGGGGATAA

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77041	CTGGGTCCAC	AAACTTGAAA	GCCTCTCTAT	TAAACCCTCT	CCCTAGAGGA	ATAAGTCCAC
77101	AACGAATTC	GTCTGCGTCT	TCTGCCTTGT	CCATTAACAT	CATATTTAGA	TGCACAACAT
77161	ATCTCAGAAT	CCCATTCAAG	GTGTGTTTTT	CTGGATAGAG	GCAAATAACA	TCATCCACAT
77221	ATTCCCCATC	TACATAAAGT	CCAGTAACAA	CAATCTTTAA	CGCTTTAGAT	AAAACAATAG
77281	TTTCTCTATG	AGAAAATATT	GCCTTGTTTA	CTTTGGTGGA	GAGTTGTTCTG	TCATTGGGAA
77341	TGGGCGTAGA	GGCCAAGAGT	AGAGCCTTGG	AGGAAAATTT	CTTGTCCATA	GGAAGTCTGT
77401	GCCGGATATT	GTCTACCATG	TTAGACATAG	AAGTATTATC	ACTAAAGTCA	AAGAAGACTA
77461	CTCCATTTTC	TGGAGAGGGT	TTGTTGAAGG	ATAGATGTTT	TTCCATGGTG	GTGGTGGTGG
77521	TTGTGATGGT	TTGAATGAGG	TGTGGTACAG	TCATTATATA	CACGTGGGCC	CTTTTTAAAA
77581	GGGGGAGGGA	GGGGGAGAGG	GTTGCCATCA	AGCAATATCT	TCGTCCAGAA	ACACCTGGTC
77641	CAGAAATGGC	CATAAGATAC	TTCTCTTATT	TCTGGAGCTA	TTACATTTCT	GGTGTAATCT
77701	GACATTGGCC	CGACCCAGAG	GTCCACCCTC	GGAACCTGAC	ATTCCGTCGA	GCTAGCGGTC
77761	CACCCCCTAA	ACTGGAGCGC	CCTAAAAAAT	TTTTGAAAAG	TTTTTGAGAT	GGAGGAAGAG
77821	TAAAAATTCTC	TAGTGAAAAC	AGAAGGGTAT	ACCCTCTCAT	TTCTGGGTCG	ACCAGTCTCC
77881	AGAAACGCCT	GTTCCAGAAA	CACACAAAAG	TTAATGTACG	TTTCTGGAGC	TATTACATTT
77941	CTGGTGTAAT	CTGACATTGG	CCCGACCCAG	CGGTCCACCC	TCGGAACCTG	ACATTCGGTC
78001	GAGCTAGCGG	TCCACCCCTT	AAACTGGAGT	GCCCTGAAAA	AATTTTTTGA	AAGTTTTTGA
78061	GATAGAGGAA	GAGTAAAATT	CTCTAGTGAA	AACAGAAGGT	TATACCCTCT	CATTTCTGGG
78121	TCGACCAGTC	TCCAGAAACG	CCTGTTCCAG	AAACACACAA	AAGTTAATGT	ACGTTTCTGG
78181	AACCAACAAT	TTCTGGTGTA	ATCTGACATT	GGCCCGACCC	AGAGGTCCAC	CCTCGGAACT
78241	TGACATTTCG	TCGAGCTAGC	GGTCCACCCC	CTAAACTCGA	GTGCCCTGAA	AAAATTTCTG
78301	AAAAGTTTTT	GAGATTGAAG	AGGAGTAAAA	AACTCACTAT	ATGAAAGGTG	TGTAGAACAC
78361	CACATCCTTT	CTAGGCACGG	CCATGTCCAG	AAACGCCTGT	TCCAGAAACA	CGCAAAAGTT
78421	AATGTACGTT	TCTGGAGCTA	TTACATTTCT	GGTGTAATCT	GACATTGGCC	CGACCCAGAG
78481	GTCCACCCTC	CGAACTTGAC	ATTCGGTCGA	GCTAGCGGTC	CACCCCTTAA	ACTCGAGCGA
78541	CCCTAAAAAA	TTTTTGAAAA	GTTTTTGAGA	TGGAGTAAGA	GTAAAATTCT	CTAGTGAAAA
78601	CAGAAGGTTA	TACCCACCTT	TTTCTGGATG	CGACTAGATC	CAGAAACGTA	TGTTCCAGAA
78661	ATACCCATAA	GTCCTTTTCT	CTATTTCTGG	AACCAACCAT	TTCTGGTGTA	ATCTGACATT
78721	GGCCCGACCC	AGAGGTCCAC	CCTCGGAACT	TGACATTTCG	TCGAGCTAGC	GGTCCACCCC
78781	CTAAACTCGA	GCGACCCTAA	AAAATTTTTT	AAAAGTTTTT	GAGATGGAGG	AAGAGTAAAA
78841	TTTCTTGCCT	GAAAGGTGTC	CAGAAGTGTA	AACACACACA	CGCATTTCTG	CACCTTGTC
78901	CCATCATTA	TAAAAAATGT	CCCTCCCGC	TCCCCCTCA	AAATCGGGTA	TAAATAGAGC
78961	TCACCAGCAC	ACCACAGACA	TCATTCTCAA	GACATTTCAA	GTACTGAGAA	CATCCTCTCC
79021	TCTTGTGATA	TTATTCAAGA	AAACCTACTG	AAATCGTCCC	TAAAATGGAT	TTTGAAGGAA
79081	CTACCAGTTC	TACCCCTTCA	AAAATGTCCC	AGTTGTATTC	ATCAGTGAAG	AAAGTTGCAG
79141	AGCATTCCTT	TGCCAATCTT	CATGACAAGG	CTACTCTTGC	ATCAAAGGTT	ATTAAGGACC
79201	TGGAAGGGGA	GAGGAAGAAA	ATGTCCTACCC	CAAAGTCCTC	TTCTGATGGA	CAAAAACCTG
79261	ACAAGGCTAT	GTTGGACGAT	ATTATCAACG	AGTATCAGGC	CGTTAAGAGC	ACTGCAGATA
79321	ATTCCATTGA	ATCGACCATC	AAGGAAATTG	AAAATGTACT	TGAAAAGTGTG	CGCAGAACCA
79381	AGATTGAAAG	TGAAGCCAAG	AACAGTGTA	CTTCCAGCCC	AGAAAAAGTG	TTTTCTGTCTG
79441	AGGATTTAGA	AATCTACTCC	AAGGGCGGAG	TGTGCAAAAG	TCTCAAGTTA	AACGCCAACT
79501	GTTCAAGAAT	TGGAGGCAAG	TATGCAGTGT	CAATGAGTAT	CAAAAAATCA	ACAGTCTCCT
79561	CATTTGAGAA	CAACAACAAC	CAAGTTTTCT	CTGAAGAACC	CAGGGATTGT	TTTATGCTTG
79621	AAACAACCTA	TCCTCTTGTT	GGGTTTCGAA	CTTCTACAGA	AGATGGAAAT	ACATATGCAG
79681	TTTTCTTGAC	TGGTGTTGGG	CTAGAAAGAT	CTCTACCTAA	ATATGTACCA	GTTTTTCGACA
79741	TGAATGCAGG	TATTCAAACC	CTAAACATGA	CTGGTTTGAG	GATGGCCAA	CTTCTGTTC
79801	TGTGCATGTT	TGGACGTACA	GAATATGACA	ACTTGGAAGA	TTTTTACATC	ACTTCAATTG
79861	AGACGCAGTC	TTTTGACGAA	GAGGAAAATG	ATGCCAGAAT	GAGGTGTAC	ACCGAAGATT
79921	TGGAGAGGAA	GAAGCGCATG	AATGACGCAC	CAGCGATTAC	ACCTCATGTG	GCCGTGTACG
79981	ACTACAGTGG	AGACGGGAAA	GAACAATTGC	TCTATATGAT	AACCGAGTAT	GAAAACACCG
80041	CTAGTTGGTG	CAACGCAAA	GGTGTGGTCA	CATCTGACAG	TGGATTTTCT	AACGAATTGTG
80101	CAATTAGTGA	TATGAATGAC	TTGTGCTGTT	TTGCTGACTG	CATCGATGTT	ACTGTTAATA
80161	ATGAAGAACA	TGAAGAACGT	TCTATGAATA	TTGTGGTCGA	ATCTGACAGG	CGTCTTTTGT
80221	ATGCTAGTCC	TTCCCCCATC	AAGACGGAAG	AAGATGGAGA	AAATTCATCG	TCATCGTCTT
80281	CCTCTCCAAC	AGTTCTCTCT	CCTACACCAT	ACGAAGGTAA	CGCAGTTGTG	GAGGGGGAGG
80341	AAGAAGAGGA	AGAAATTGAT	GAAGACGAAA	GTAGCAAGTA	TGAAGGTTCA	GAAGATGCTC
80401	TTGTTATGAA	GAAATTAGCC	AAGCTTTCTA	CTATGAAACA	AATGAGAAGG	GTTAAGAATG
80461	AACCTGCACT	CAAAATTACT	TCTGGGGGTA	ACAATAGTAG	CAGTAGTATC	AATAACGAAG
80521	ATGATGGTGA	TGATGACGAT	GCCGTTGACG	CTACTGCATT	ATGCCCCCAA	ACTGAAGCTA
80581	CAGTGAAAAA	TTCTTTCATG	GCCCAAACG	ACAGAGAAC	TGAAAATATT	TTGTATGAAA
80641	CTATGCAAA	TTCTCTTGCT	AAAATTTGTA	ATAATCCATC	ATCTATGAGC	AGTTACCGTG

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80701	TATTCACCAA	CAAACCTCCAA	GAGTGTTTGA	ATACCATGGA	CGATAGTATC	CGTCGCCGTC
80761	CAACCATTTG	GACTGAAGAA	AGTCAACAAT	TTGCTAAGGG	TTTGTGTGTT	GATGAGGTTG
80821	TCACATCAAT	TGTGGCACAT	CAGATGGCTC	AAGATATTTG	CAAGTCTGAA	ATATTTGGAG
80881	GAATGTTTAA	CGCCAACCTC	ACCAACATTA	AGGGTAAATA	TGAAGGACAA	AAGAAGAGTC
80941	TGTATGGAAA	CAAGCACATT	TCTTCCTCGT	GCTTCAAAAC	CAACACGGAA	TCTAATGTGA
81001	ATAATGCACT	ATTTGCGTGG	GTGAAATCGA	AACTCCATT	TGGCACAGTC	ATACCTAACG
81061	TATTCTCCTT	CAAAATGGCA	TCAGAAAAGC	CCTCAAAAAT	GAAGCGCAAG	CGTACCTCTA
81121	GTGCTTCATC	ATCTAACGAT	GAACACCAAG	AACCATCAAC	AAAAATGATG	AAAAATGATG
81181	AAGGGGAAAA	GGTTGCACAA	GAATCATCAT	CTCCTTCTTC	ATCGTCTACA	CCAGAACATC
81241	AACAACAAGC	TGGTCATGAC	AAGGAAACTA	TCAATTTAAT	TCCCCTCAGT	TTCATAAAAA
81301	TGCCACGCAG	TAATGTCAAT	GGCTCGGCTT	CATATTTGTC	TGAAATATTC	GGTCAACGTC
81361	TTTGTGGACT	GTCTGATGCT	TCCAGCACAT	TTAAGAGAAT	GTGCAAGACT	TTTGAAGATC
81421	TTGAAAATGA	AATCATGAGG	AGCTCATTCA	CTAGACTGAC	TAGATATGAG	AGGGAGGTAA
81481	CTCGCTTGTA	TGAGAAATGC	AGGTCTCAAG	CTGTAGATAT	TGAGGAAAAT	GAAATGGATG
81541	TTTTGTCTCA	CCAAGGGGAA	TTGTTTGCCG	AGTTCTTGGA	GGACCCGATC	GCTTACTTTG
81601	AAGAAGTACT	GGAGAATATT	AAGAGTTGGA	GCCTAGAAAA	CGTTAACACC	CCTAAGCGCA
81661	AAAACAAGTA	TGCAAAGGTA	CTGGTGAGCG	TTAATGCTAT	TCGTAGGACA	TATGAAGAAT
81721	ACCATGCGTT	TAGCAAGTTT	GTACCAATGT	TCTTGTTCAT	TCTGATTAAG	AGAGAATTGG
81781	AAGGAGACAA	CTATACCCAT	GACGTTCACT	TTTCTTCCAC	TTGCCTGTGG	TACCTGACTG
81841	TAATGACCAG	GAACAGGATT	TGCGATGTGC	TCCAGTACAT	CAACAACAAC	AATAATGATA
81901	ACGAAGAAAC	CGATATTGTG	GAGGAAGAGG	AGGAAGGAGA	AGGAGAGGAG	GATAAAATGG
81961	AAGAAAGTAT	GGACGTAGAA	CAACAGAAGC	AAGTTTCGAA	GGGAGGGAGA	AAGAAGGGTC
82021	AAAAATTCAA	CAGTATTGGG	GATCAAGTCA	TTAGAAAATT	TGTGAAAAGT	TTGTGTGAAA
82081	ATTTCGATGGT	AGTTTCTATT	GCAATTAATA	GTTTGATCTC	TGGAATAAGC	TGGATGAACA
82141	AGAAAAATCCC	TCCCGGTTTC	TTGAAGGATT	CTAGCACAAAT	CAATACCCCT	GATGAGGTCT
82201	CAAGGTTTGT	GTTTAGCGAT	GTCAAAATCA	ATAGGAAAAT	CAATGGAACA	GATGATAAAT
82261	ATGAAACTGT	TTTTGGAGTC	AGTACGCGTG	TGGATTACAT	TATTGTAGGC	CCCTTTAGTA
82321	TACCTGTGTA	TTTTTCAAGC	GCAGGACTAG	ATAAGGCCCT	ATGTGGCAAA	TTGACGGTTA
82381	ACACCATAGA	CGGAAAGGGC	ATTTTGACAA	TTTACCCCAA	ATATGATCTA	TTAACAGTAT
82441	AGGATGTTGA	TTCTACTACA	ACAGACAAGC	TAGAGAAGGA	TATTTTGCAT	TTGTCTAAGC
82501	ATGACACCTT	TTTCAATATT	AATAAGAATA	AGGTTCTTCC	ATTCTATAAT	ATTTCTCCTA
82561	GCTCTTCTCT	CACTGAAAAG	AAAAAGACAA	AATTCAATAG	GAAGAAGATC	TCATCTGGTA
82621	TGAGCAATAA	TAATGGCATG	TGTGTACAAA	CTCCTTCTAG	TTCAAATTCA	GTCTCTTCCG
82681	TCTCGTCTAT	TGTAGCTCCT	TCATCTTCTG	TTCTGGCTCT	ATCTTGCTCC	CTTTCTTCTA
82741	CAAAGAAAAA	GAGCATCTGG	AACGAGAACA	TGTTTTTTGAC	ATCTAGGAAC	ATGTGGAGGT
82801	GTGGATTTGT	TGTACCACCC	AACTTTTGCA	GTTTTATTGT	TAACCATAGA	CACGCTGTAA
82861	AACTTGTAGC	TGAAACTGCA	CCTAAAACAA	AGTTGTGTAG	GAATATTATT	GATAGGAATA
82921	GGAAGATTAG	ATTTAACGGT	CTAAGAAGAG	TATGCAAGAG	TGTTAGCGCC	TTTACCGGCC
82981	AGTCTACATA	TTTGCTCAAT	AAGAATATGA	CTGCAACTTC	ACCTAGTGAT	TTGAACCTAT
83041	GTATTTATAC	TTCATCTTTA	AATGACCCAT	TGTATACTTG	TAAATTGACC	CATGAAGAGT
83101	ACCAGGACGG	AAATGCTTTG	GATGACTATG	GTGCAGTTTT	TGTAAACTAT	ACATTTAAGA
83161	GTATCAAATC	CTGCTCGTCC	AAAGATGAAA	CCGCTGACGA	CAATGCTGCT	GCTGCTGATG
83221	ATGATGGTTC	TACTACTTCT	ACCTCTTCTT	CAACTGATAC	TGATGCTGCT	GCAATCCAAG
83281	ACTTTATGCA	TGTAATGATT	AAGAAAATTG	ATGCCATGAA	AGACATTAGA	GGAAAGTACA
83341	AGAAATCTTT	GGCAAAGAAA	ACAAAGAAAG	ATTAAATGTA	TACCTTTATT	TTTACCAATA
83401	AAAATTATAT	GTTTTACATG	TTGTGTTTTA	TTCAAATTCA	TATGGTTTAT	CCCCATTTAA
83461	ATCGTCTAAC	CCCATATCCC	AGTCAAACGC	TGCTGCTGCT	GCTGCTGGTT	CAATGTCTGA
83521	GCCATAGATG	GATTCATTGA	CATCTAAAAG	TTCATCTCTA	AAATTTCTCT	GTGTACGCGG
83581	TTGACGAATA	ATTGGTGCAA	TAAATGCCTC	CTCTTCTTCT	TCTTCTTCTC	CTCTGACTCC
83641	CGTTTCCTTG	ACAGCTTGAC	GTTGCGCTTT	TATTATCTCT	TCAACGTTCC	TCCCTGGAGT
83701	AGCGGGAGGA	AGATCAAAAT	CAATACTGCC	AAGCTCAGAG	TCTATATCAG	TAAAGGACAT
83761	ATCAGTAGCG	TTTTCTTCTT	CTGCTCTTGC	TGTAGACGGA	GGAGGAAGAG	GAGTAGGCTT
83821	GGGTAGAACT	GGTGTAGGTG	GAGGTTGAGG	GGTAGTAGAA	CGAGAGTCAA	ATCTTACACG
83881	GGAAATAGGT	GGAGAAGGAG	CAGTATTAGG	TATAGGAGGA	GGAGGAGGGG	GACTAGAAAT
83941	GAGTTGAACC	GGAAAAGGCT	GCTGCTGCTG	CTGCTGGGGA	GGAGGAATAT	TACTGGGTGA
84001	TTGTTGTTGA	GGAGTAGGGG	GAGGAGGAAT	ATTATTGGGC	GGCTGTGGTG	GTTGCTGCTG
84061	CTGCTGCTGC	TGCTGCAGCT	GAGGCGGCGG	CTGTGATTGG	TTGCCATAAA	AGTACAGCGG
84121	GTAATGTTGT	TGTAATTGTT	GAGGAGCATA	TGGGTTATAA	TACTGGTTAT	ATTGATAATA
84181	AGGATTTAAG	TATCCTTGGT	AAGTAGGTTG	TTGAACCTGG	AAAGGTGCCT	GTGGTGGAGG
84241	AAGAGGAAAG	GGAGGAGGTT	GGAAAGGGGG	AAATTGTTGT	TGTTGTTGCT	GACGTTGCTG
84301	TTGTTGTTGT	TTGGGCACAA	ACACTCCAGT	CGATAAATTA	AATGCTTGAC	TTGTTTCTCT

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84361 CACTGCACTC TTTATCATTT TTTCAACCGG TCTTGCTGAA GCTCTTGCTA AAACACCAGC
84421 TGCACATTTT TCCAGCATGG AGATAGAATG CTCTGATTTA CTCCTCATCC CTCCTCCAAC
84481 CAAAAGATCC ATAGTCGATG ACATTTTTAC CCACACGTTA TTATTTATAG CTCTAAAATA
84541 ACGAGGTATT GATAGGCCAC GTACAGTGGC GTTAGAGTTA TCAGAAGCTA CAGATACAAA
84601 ATTCTTATCA AAGTTCTTGT TCGGTAATAT ACGTGTACCA AACAGGTAT TACACACAGT
84661 AGCAAGTTGT TCAAAGTATA CTCGTTCTTT CACAGTTCGC TGTATACGAT CCTCCACGAT
84721 ACTGCTCATT AAATTGTTTT TCTCTGTTGC ATTTCCATCG TTAAGAGATT TCAATATTTT
84781 TGAACTTAAT TCTTGCCACT GAATCTCTCC TGACCGTATA TCTTTCCTAT GGGAAATTGC
84841 CCAACAATA TTAGCCAGAA GAGCTTTCAC CAATTCAGCA CCCACATTTG TGACAACAAA
84901 AGTGTTTGT CTTTTCTCTC CGAACTTTTT CTTCCTTGT TCAGATGACA ATAAAGATGA
84961 TGAAGTAGGA AAAGCCTTGG TTTTAAAGG CTTTAAAGG TTAGCTAAAA GAGACCTTAT
85021 TCTGTACTGT ATAGCCTTCT CTTGACCAC TGCCTCGTCT GCCAAGTATG ACACGTAATC
85081 GTATTGTGGC GCATTTTCAC TCCTTACACC TAAAATAGAG CCCGAAGTTA TAGCACCTCT
85141 CAATGGTCGA GACACGGTCA TCATTTTCC AGCAGGCACT GCTAATGCCT TTGATTCTGT
85201 GTCACTTCTC TTTCTTTTTT TAGAGGGAGG AAATATGTGC TTTTTCATTT GTTTTGCCCG
85261 CTTGATACA GATGTAGTAG GTGTAACATG TTCGTCTTCA ACATTCTCCT CTTCTTCCCTC
85321 CTCTCCATCT TTTTCTTCTT TCTCTTCACT CTGTTCTTCC TTTTCTTCCC GCTGCTGTTC
85381 CTCCCTTCC CTTCTCTCTT TCCCTTCCCTC TTCTTCTTCA TTACCTCCTC CTCTTCCACC
85441 ACCTTCTTGA TCAGTGCTC TTTTTCCCTC ATCATTTTCT AAATCTGAAC AATCGCCAGC
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99901	TATGTCTGGA	GCTCTGATGA	ATGTCTTGCC	AGATGCCATC	CTAGTTTTTC	TCCTGGGGAA
99961	GGTGACGTCC	GTTTGAGAGA	GGGTTCCGCT	GGTTTCAACT	GCAGCCAAGA	AAATATCCCT
100021	TTGTCCAGTG	ACGGTAAATT	GTGTACCGTT	ATTTAGTGTG	ATGACATTAT	CCCTCTCTGA
100081	TTGTTTCAAA	GCTTCATAAT	CTTCCTCCTC	ATCTTCATAG	TCATCTGCAA	CATTCTCAGT
100141	GTCTAATACG	ACAATAACAG	AGTTGGGGGA	AAAATCAGTC	GTGCTACGTC	CAGACTGGCC
100201	AGTATTTTTA	CTGCTCCATG	GTGTAGGATC	ATGCTTTCTA	GGCTTTGCTG	AATGTAGACC
100261	ATTATAGTTG	GCTCTCCCCA	TCATATCATA	CAGTGTACAC	ACTAGTGTAT	TACCAATGCG
100321	TTTTCCACTC	TTATTGTTAT	CACAATAATC	CTCATCTTCT	CCAACAAGAG	TTGAGTACAC
100381	ACTGGAATCT	GTTAGAATTG	TATGAGAAAC	TAATGCCTCT	TTAAAAATAT	CGTCACTCTC
100441	TTCTAACCAG	AAATCTGATA	CACTATCATT	ACATTTATTT	GCAGTATTAT	CAATAAATGA
100501	ATTGAGTAAA	GGGTGTAAAG	GTTCCACGCC	AAATAAAGGT	ATAGGCACAA	ACTTTGCCCT
100561	ATCCGTGCGA	GGTAAAAATG	GCCTGTCTTC	GTTGTATGAT	TTTGGAAAGG	TTGTTGCAAG
100621	AACACAATTT	CTTGCAATTT	TTAATGCCTC	AGCTGATATA	CGTAGACGTA	TACTGTTTAA
100681	CTTTTGTCTT	GTTGTCTGGT	TATTAAATCC	TCCACACAAC	GAGTACATGG	CATTATCGAT
100741	ATTCTCCCTC	GCATGATCCT	CTATGACCAA	ACCAGCCTTG	GTCATTAGAA	AATGGTCTGG
100801	GTCTTTACCG	AGAGGAAGAA	TATCTGCATT	GAATTTTGAA	ATTATATCAT	TGACAACACG
100861	TTCACAGTGC	ACAGATCTCT	TTATGAATTT	AGAGGCTAGA	GATATGAAAT	GTCTATTTAA
100921	ATTGGAACCT	AGCCTATTCC	AAGGAAGTGA	ATTTTGATGT	CTTTTATTAT	CCCTCTCGTC
100981	AGAAGGGAAC	AAAAATTGAA	GTAATCTGGT	CCAATTAACC	GCAGCTGCAG	TTTCTCTCTG
101041	GACGAATGTT	TGACGTTGTT	TTAGTAGCTG	AAGAGACACT	TGGGTTGGCT	TGTCACTACT
101101	AGCTGGAAGA	GGGTGTTGAA	AGCCACAGAC	GCCAAATCTG	AACGTCATCT	TTAGATTGGT
101161	GTGTAGAGAT	TTTGTGTATT	CCTCTTCGTG	GATTTTTCTT	CTCCTTTTAT	TGGGCACAAA
101221	CTCCTTTGTC	TTTAATTCTT	CCAAGAAGTC	TTGTACATTG	TCCTCATTCG	CGAACGTTAC
101281	CTTCCCCTCT	TGCCCTCGTT	TCATCACGTC	GTTGTTCTTA	AACAGGCGCG	CAGAAAGCTG
101341	CATCAGGGAC	ATTTCTTCCA	ACTTTTTTAGG	GTCTTCATGG	ATGTCCTTCT	TCCTCTTCCC
101401	CGAAGAGATA	AAAGACCCTA	TAACATTCTC	AATGCAATGA	ACTGCATACT	GTCTCAATTT
101461	TCTGTTTGTC	ATCCCTGAAC	CAAAGCCTAT	TACTGGAACA	ACCATGCCGC	ACTTGTGGTT
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101581	ATTAACATCG	TTCGTAAAAC	TCTGTTTATA	CTTGTGAGCA	ACCCAGTTCA	CTATAAATAA
101641	CAAGGCATAA	GAAGCAGACA	CCTTTCGTCC	CAAAAGTTTA	GAAATTTGAA	GGGAGAGCCA
101701	GTCTGCCATG	TAGCCATCTG	ATTCGTGTTT	GGCGATAGGT	GTCTCATCA	TTGTGACGGA
101761	TGCTTTCTCC	ACTCTATCTG	CTACAAATTT	CACGTCTTTA	ACAATACTTT	TTCTGCACGC
101821	ATTTTTGTCA	TTAGAGTTTA	TTCTTGCATA	TTGGAGTTCA	CAGGGGTAAT	ATTCTTCCCC
101881	GTCATTATCT	TCATTGGAGG	ATGAATTTTT	AGTTTTGTTG	TCGTTCTTTA	TATACGTGTT
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102181	TGGAAGGATT	TCAAAAATCT	CACTAAACAT	ACCCGACAAC	TTGTTTGATT	TTCCCAATAC
102241	AATATCTGAC	CTTATGTATT	TTTCATAAAA	GTCAAAATCC	GTCATCGTTA	AATCAGTTGG
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102481	TTCAACGTGT	CTAGATTCTA	TTGTCTTCAC	ATCGACAAGA	AAGTATCCTT	CACGTACTACT
102541	GGTGCAGGCC	AATCTCTCCA	TCTTCTTGTT	GTAGTAGTCT	ATCCTCTTCC	TGAAGCAAGA
102601	TATTATGGAA	GCAACTCCAT	CCAACATGTG	GTACAGGGCT	GATTGGGTAC	ACCACTCGTC

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102661	ACTATTTACT	CCATCACGAG	CAGTGAAGAA	ATCTTGAAGG	AAACTGTATA	TAGAGATGAA
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102781	GTGCCGTATA	ACTCTGTCTA	CGAATTCCCA	TGTCAGGTTT	TCATTTACGT	ATTCTTTTAG
102841	GAGTGCCTTT	TCTGCTTCTA	TAGTTGTAGT	AGAAGTTGAA	TCCATAATGT	AGGAATGAGG
102901	GAGGTACTTT	GGCACGCACG	TGTGCACTGA	CCGAGACACA	ACGGTGTACT	GAACAAGGGT
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103021	ATTTTTTTAA	TTAACACACG	CAAAACTGAC	GCTGAAATCG	TTTCGCAATA	ATGGGAGAGG
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103381	TTACTGGGTT	CCCTAAAGAT	GTGGAAAAGG	AACAGGTGCA	GAAGAAGAAG	GAGGAAGAAG
103441	AAGAAGACGA	AGAGGAACAG	ACGACAGATA	CTAACCCCAA	AAATAAGAAA	GTGGAATATG
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103561	TGTCTATACA	AGGTTCTCCT	GGTACAAAAA	CTGTCTGTAA	GAAAACGACC	CTACCAAAGT
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103741	CCTTAATCAT	GGGCTCTTGT	GGCTACCTTG	TATGAAGGA	TATAAGCAAA	GGTACAAGCC
103801	AACAGTACAT	GTACACATTT	GAACCAATAA	AGGAAAAAAA	GTAATGTCTT	TGTTTATTTT
103861	CCCCTTTTTT	AGAAAAATTG	GAACAACAAC	AATGTCGTTG	GCTGTGACAG	AAGATTACGG
103921	GCACAATGAA	AAGTTGATCA	AACGGTTACA	AACCTCTGTA	TATCACACCC	CTCTATTAGG
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104041	CACAAATTTA	TTAAAACAAG	TTGAATATGT	TTTCGATGAA	GAAACAGGAG	CAGTTATAGC
104101	TAATATCTGT	CTGTTAAAAA	TCCTAGAAAG	ATGCGCACAG	AAAGGAGGAA	TATATGATGC
104161	ACCAGAAGAT	GTTGCATTCT	TCAATTCTAA	GATGGGGGAA	GTAACGCGCC	TATTTACTAT
104221	TATAGGAGGT	AGGCCCAATA	TGACGGTGCG	GGTTAATTTT	AAACATGGGC	AGACAAATAA
104281	TCCTGCCTAT	GGTTATCTCA	CAGATGATAA	TGATACTACT	ACTGTTACTC	TCCTGTTCAC
104341	TCCTCCCTCCA	TCTCCAGCTG	CAAGAAGATC	CCCTTTTTC	ACACGCACCT	TCATATCCGA
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13x

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127141	GATATACAAT	ATCCCTTTTT	ACACAGAAAT	GGCATGTCTC	TTTACACGCT	GTTGTTCTTG
127201	AGTGTGTGTT	CCATCTTCTT	CTTCTCTTAC	GTGCTATCA	AATTCAATTG	CGTTTTCCCA
127261	GGTCTTTTT	ACTCCCTTT	CCTCTGTTC	ACTGGTAGAC	TGTTCTCCAT	TTTCTCGCTT
127321	CTTTTGTTC	TCCCTCTTCT	TTACCTTCTC	AAACCACTTT	TCGGTCTTGT	TTCTCGTACG
127381	AGCTTCTTT	GTGGTCAAAT	GTCTTTCCTT	GTTGTACCTA	GTGACAATTT	TTGATGTGTT
127441	CTCCATCATG	GAATGGAGCT	TCCTTTGTTG	TTCAATTTCA	AATTGGGTCA	TATTTTCTTC
127501	ATCAAGTTCT	TGAGGCGAAG	AGATGTCTAT	CCTCTGCCCC	TCTTGATAGA	CGGTGCCATC
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127621	ATCACTTGGA	GGGGTCTGGA	AAACTATACT	TGATCGGTTA	CATTTTAAATA	CCTTGAACCT
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127741	GATGAGTCTG	GGCCTCATAC	CTGCAGTATC	CCTTTTCTTG	TTTATGGGGG	AGAAAGGTA
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127861	GTAGAATTCT	GTAAGAGGATA	TCGAGAAGAC	GAGACAAGAG	CCGCTGTCTG	ATCTGAAGGT
127921	CGCATTGGAA	GATTTCTTGT	GTACATTTCT	GAGAGATTCT	TTTTGTTTCT	CAGAGACTTT
127981	GAAAAGTTGT	TCAGTTTCGA	TATACGAGTT	TTTGTACTCC	TCTTTCTTTA	CTACTTGTGT
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128101	TTTTGTGGTC	TTTTCGACCT	GGTTTTCTAG	TTCTCTTTTT	ATTTGTAAAT	TTTTCTTAGC
128161	CAACTCTTCG	CGTATCTGGC	GTTGCTTTTC	ATCACTGTAT	AAGATAACAG	CGTAGGCTAG
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159841	GAAAAGGAAA	AGGAGGAAGA	GTATGAAGAA	GAATTCAGA	GAATGGCAT	ACCTTCACGG
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169561 GGGTGTATTT TTACCCTTAT TTTTGCATTT TCTGTTTCAC TTCCTAAACG CCCCTCGGTG
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175201 AATAAAGGTA ACAATAGAAA ACGTAAATTT TCTCGAATCG GACAAGAAAA GAGCTCTTTT
175261 CTGTGCAACG CGTGTGGTGT CAATTTGAAC AAGGGTAGTG ATGAAATCAT AAAGGGTATT
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175621 GCAAGCAGGA GAGGGATGGA AGATCGTCCC ACAGCCAAC ATAGAACCTC CTTACATTCA
175681 GCTACTCAA ATAAACCAA TTTGAATAAA CTATTAGTTT CTGCTATCAA GGAACAGGA
175741 GCCACTGAAA CTGAAGCACA GATATTCAAC AAGATTATTG GTAGTGAAAA GGGACTATCA
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175861	TAAGAATGCC	TTCCATGACT	GGGTGGTATC	AAAGACAGAT	TGTGAGGTGT	TTGATGTACA
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175981	GGAGGTTACA	AAATTCTCTT	GTAACCAACA	GTCGGGAAGA	TGTGCCAGGA	GTGTTTATAG
176041	TGCGTCTTCT	CTAGAAAGAG	CAGCCAATGA	TCTTGGCCAC	ATTATAGGTA	TCATCAAGAA
176101	AAATCCAAAA	TTGGAGGAAG	AACTCCCTGA	ATCATTTTGT	TGGTTTATCA	ATCACAATGG
176161	AGGAGATTTG	TTTGTGAATA	AGCGAGCCGC	GTACTACGAC	ACGATGCATC	TAAGCATAGG
176221	GAAACTGGAT	AATGTGGACA	CTCTTGCCCA	GGGTTTAGAT	AAACGGATGG	CCTCATCATT
176281	GAGAGAGCAC	CTACTGAGGA	AGTTGGACTC	TATACTTTTA	CAAATTGATA	AAGTTAAATA
176341	TGAAAAGGCA	AAGAAATGGA	TATTGGATAT	AACACAGGAG	GCTGGCACCG	AAGAGGACAA
176401	TAAAGAAGAA	GAAGATGCGA	AAAAAGAGGA	TCAATCTCTT	AGCGTTAGTG	AAATTGTGGA
176461	TGTTTTAACG	GGCACACATG	ACCCTATGCC	CCTGAGGGCT	AGAGGGTTTA	TCCAGAAAAA
176521	AATATATCCT	TTGTCAAGAA	ACGAATTGAG	AGAATTAGCC	CTTAAGGAAC	TTTTCCCTGA
176581	AGAAACTACA	TCTCCTCAGG	TTTTGAGTAG	GCAACATGAT	GTATCTACGC	GTGAAGATTT
176641	ATGCAATGAA	AGTATGAATG	CAGGGAGGGC	AGAATCCATT	TTTAGCGACC	CTGATTCTGG
176701	AGAGTACGTG	GCTACTTGTG	CATGTCTTTA	CTCGGAATAT	TTAACAGGGC	CTGCGTGTA
176761	GCACAAAACA	TACAGGTATG	TTATAGACTA	CGACAAATGG	AAAAGGACTG	GAAGACCTGA
176821	ATTTCTAACT	GATCCTGTAC	TTCATTTTAA	AAAGGCAGAA	GCTGTGTGTA	AATCGACAAA
176881	TCCAAACTTG	AGGGCAATTT	ATAGTCCAGA	TAATAAAGGT	TTCTTGTGTG	CGCCTGTAGC
176941	TGAACCTGTA	AAGACGGCAT	TAACTTTTAG	GGGTTACAC	GAACCGTCTC	TCATTGTCTGA
177001	GAGAGATATA	AATCAAGCTG	AAACTCTACC	ATCCAATTCA	TTTGGTGTA	ACTGGCCCTA
177061	TGTGAATCTC	CTAAATCGCA	TTCAAGACCA	GTACACGTAA	TTTGATAAAA	AAAGATCGGG
177121	GAAAATGTCT	GCATCTTTAA	TATTGGACGA	ATACCTCAAG	AAGACTGCTT	CAGCCGTTCT
177181	GGATGTAGCT	GACTCATTTG	AGAAAATCAA	GGGAGAAATC	CAATCACCTG	AGGAGGCTGC
177241	GGCTCTTTCT	GTTGCTCTCT	ATGGAGCACC	TCCAAAACCT	TCAGCTTCGG	CTGTGGCCTC
177301	TATCATCACT	GGAGAAAGAA	CATCTTTAAA	CGACAAATAT	CTATCGGATA	ATGTCCTATT
177361	GAAAATGTCT	GTTGCTCGCG	TTGGACAAGA	AAATAATCGC	AAGAGAGCCG	ACCAGGCAGC
177421	TGATGAAATT	AGAACCATCA	TGGAAGATAT	TACAGGGAGT	TTGTCCGGTG	CGTACAGGCA
177481	ATATAGCCCC	CTCGAGGAAG	AAAATAAGGT	GCATATAGGC	ATCATGAATA	ACAAAACGCC
177541	TAGCATTTGT	TGTGGATATT	ATACAATTGA	CACATCTATT	TCTTCCGAAC	CTCTTTCTCT
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177661	TTCAAAGGTC	GACTCTGCTA	GGTCTACAAG	ATTCGACGCT	TTTGTTAATG	GTGTTGCGAA
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177781	ACCAGATTCT	ACACCTAACC	CTTGTTTCAGT	TGACACTATT	GTGTCCAGAG	ACGCAAGTGT
177841	AGTTAAAACA	GCAGTTAATG	ATATATACGC	TTCTGTTGGA	AAATCTTATT	GTGTCCTGTC
177901	AACACAGCTA	ACCTTTATGA	GCGAGATTGA	AAAACCTGCG	AAGGCTGCAG	TTGTATGTTT
177961	TGAGGCACTC	ATGTCCGATA	CTAGGGAGAG	GGCATTTCGT	GAGTTCCTAT	TTTACGTTAG
178021	CTTTAAGGAA	GATGCATCAA	ATACCAATTC	AAAATTGTTT	GTTCAGAATA	AGCTATCTTC
178081	CATGTCGTGA	AACCCAGAGC	AGCCCATAAA	ATTGGTACGC	CGTTCTGCTG	AGGAACACT
178141	ATTCGGGCTC	TGTTTCATGT	TTAAGGTAAT	GCCTCCAGAA	TTTCATGAAC	GTATATTTAA
178201	CTTCCCTACC	ATTCCCCATT	CAACACAATA	CCATGGTCTA	TATGGTACAT	GTTTAAACCC
178261	TCTACTTAGA	AAATACGGTT	CTTCATTCTG	AAAGTCCTGG	GCTCATTTTG	AGGAAATTTT
178321	AAGCGAAAGA	GCCAATGCAG	TGAAAAAATT	TGGTGTAAC	GATACGAGGA	TAGATTGTCT
178381	AGATGCAGTA	GCAAATCTCA	CCGGACCTGT	GTATGTTCTC	ATTTTAGATC	TTGTACGTAC
178441	TCTAAGTGCG	CAGAGATCGT	GTTCAACTAA	ATTTCTCCGT	GAAATTAAGG	AAAACATATCT
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178561	AAGAGGTGTT	TTGAGGAGGA	AGTGGAGGAA	GAAAGGCAAC	AACCTTTCAC	AAAGAAATCT
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178981	GTTGTGGAGA	AATATAAGGA	CGATAGCGAC	GAAAACTGA	GCGTCATTCT	TAAGAGTAAG
179041	AAATCCCCCA	AAGAATTTGA	CCTCTCCTTT	TCCGATTACG	TTGATCGCCT	TAACAGGATT
179101	CTGGTTGGTG	TAATTAAGAG	GGTGGCCGGA	GCTATTGAAA	GTAAGGAATT	GTTGCAGAGT
179161	AACAGCATGA	TCATGAACAG	TGTTCTGGGT	ACTGTTGTGT	CCAACATTCC	TTACAACATG
179221	AAGATTAATA	TTTGTGTGTT	TTTGACTAAC	TTTATTTGTA	CATTTGCTAA	TGATGATTTG
179281	TACACATTCT	TTAGGGATGA	TGAGAAATTT	GTAATGAGTC	AGGTAACAAG	ATACATTTCA
179341	AAGGATTAGA	AAAATAAAAG	ATGGTATAAA	ATTACTTGTA	TTTTTATTCA	AACAAAACCT
179401	TTATATTTGT	ACAATTCCCA	CTTTACTTCT	TCTTGATTTC	GTCCTTGATA	TCGATCACAT
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179521 TGCACACGTC AATGAGGGTA ATTTTTGAAG ATGAAGATTT AATGTCCTTG CTCGAGAAGT
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194341	GTTCTTGCAA	AATGCTCTCT	CGTTTGACGT	TGAAGCGCTG	TCTCATTGAT	AACATCAACT
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194581	ACAATAACCG	CAAAAACAAT	GTATATTCCT	CCATTGTTTG	AAAGTGCCAT	TTTTAAACCC
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195361	ATAGGCAATT	GCACCTAAGC	GATACTTTAA	TTGGTCACTC	TTTCTTGTTG	TCCAAGAATT
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195481	AGGCTCATCT	CCGTTAGACG	ACATTATTTA	CTCCTCCTTA	AAAGCAGTGA	TTGCAAACAA
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195841	GAAATCGTAC	CTTGTAATTT	CTCCATCGTC	ACCACCAATT	CTCAAAATGT	ACGTAGCAAC
195901	ACTACACCGC	CCTACTTGAC	CAGTTTCTTG	TTGAATTTT	TCGTCTATAT	CTGTGCAAGA
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196261	CCTCTCATCG	CTTATAGTTG	CGCCATTAGA	CATGCTGTTG	CTACTTGCTT	TTGGTATACA
196321	ACATCAACAG	GTGTAAAAAA	CATACAAAAG	AAATAATAAA	AATACTTTAG	GGGAAGAAAA
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196741	CAATTTCTCA	CGTGGTCAAT	AAAGGAAACA	CAAAAAATAT	TCATCAATTC	TTTTATTTGA
196801	TCAAAGAACA	TGTTTTACAC	AGTTTGGGCA	CAGATAATCA	GGGTAAAGTC	TCAAACCCCA
196861	TTGGTTCATT	ACAATGTACT	TGACAATATC	AGAATGGTCA	GATTTTTTGAG	AAGCATTAGG
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196981	AAACATGGGA	ACAGATAGTG	AAGAAACTTG	ATTCTCATCC	GCAATATCCT	CTGTATTTGC
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197101	GTACACCATA	CAGGCTAACA	TTACAGCAAC	ATAATCAACA	CCAGTTTAT	CACCTTTTAG
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197221	CATGTGTAAA	TGGTGGCAAG	AATACATCAA	ATCCCTAACA	TCCATTGAAC	CCCAGGCATC
197281	ACACAAATGT	TTTGTTAGTG	AAGAACCAAC	TCCTATTAAT	TCCCCTTCCT	TATCATATCC
197341	TACAACATCC	ATATCAGGAT	TTGGTAAACT	CATACCAATA	CAATTGTCAA	AATTGATGGC
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197581	ATTAATCTGG	CACATTTGAA	GAGGTGATGG	TAATTTATTG	CACATGGACT	CGTAATTTGC
197641	TGGTTTCTTA	CGGCGCAATT	GTTGTTCTCT	AGCATCACAA	CTATTGCTTT	CTTCTACTTC
197701	AGTGATAGTA	GCAGAAGAAG	AAGAAGATTC	TCCGTAATTT	GTTGCAGCCT	TAGCACAAAG
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210961 ACACAGCTTT TCGCGCAGGC ATTTTGGGAA ACTATGGGAA GTTTATTGAG GTGTGCTTTC
211021 GGTGTACAGT TCCCCTTCTC AGATGAAGGT TTTGCGGCTA TCGAAAGGAT TATACGTAAA
211081 ACAGATCCTG ATACTGGAAA GGTTCAGAAA ATGGACCCTT CCTCTCTTTC AGATCAATAT
211141 CTCTTGTTGG TAGGAAATTT CCAGGTTTCT CCCTTCCACG TTTTCAGATCC TAAGGATATC
211201 GTTTTCGGTA GACAAGTTAC GCCTAATACG CCTATTTTGA GTATCATTAC TAGATCTAAA
211261 AATGATAAGA ATGAAACGTC TACTATTATT AATTTTCAGG ATAGGCTTCT TGTTAACGAT
211321 ACCGTGTTGA GAGACGCCAC GCAAACGTC TCAACTTCCA CCCCTTCTCA AAGAAGAGTC
211381 CCCACCGCCG CAGGTGAACC AAAAAAGCCA ATGCTCTCTG GTTGCTTGT GGGTGATTGG
211441 GGACCCGAGG TAGTGACCAG GGAAAGTGAT GATATGATTA GTGGTCTTGT GGGTGATTGG
211501 TATATCTCTT TGGGGGTCTA TTATGCCATG GGTTCATCGG CTGCAGCTAT TGCCGCTGGC
211561 CACCAGAGAG CTCTCGCTTC AGCCGAGTCA ATTAATTAC CCATGATGAA AAAATTCTCA
211621 AAGAAGGGAG GAAAGTATAC AGAGGAGGAA AAGCGAATCA AGAAGGCTAT GCGTAGGAAT
211681 GCAGATCGTT CTGCTAGGAT TTTGGCTTTG TTGGGGCAA CTGATGCCCA GTATGGGTAT
211741 GTCGAACATA ATTCTACCCT AGATTCTGTT TGGTCTTCTA ATGCCGCTAT TCGTGCAAAG
211801 GCAAAGGAGG ATGCTCTTAG CCGTGACAG ATCTTGGCAG TTAGGAAACA ATTGGACGGA
211861 AAATGTTTCT CTTCAAGGGA TGAATATTCC ATGGTAGAGA GATATCTTAG AGACTCATTT
211921 TTCAGGTCAG TTAATAGGTC AGGAGGAGGA TATGAAATGT TTGATCAAGG TTTTGATATG
211981 GGAAGATTTG CCGACTTTTT GAGTGACAAC TCTGCTGCCA GGAACGCTTG GCAACAGTAC
212041 GCAGAGTTAA TGAGAGGACT TTCTAAGCAT GAGAAACGCG TATTCAACAT TGAAGGTCTT
212101 TTCAGTGCTC TAAATTTCTT CAAGTTCCCC CTTGTTCCAG AACAGGGGCG TAAAAAGACT
212161 GTAGGTGGAA GGCATAGGCT TAACAATTTG AAGGCGGCCA ATAAGATCAT TAACCGCATC
212221 ACAGAGATGA CTCTCCAGTC AGCCATCGAT GGTACTGGAA TCTCTGATAT TATTGGTTCA
212281 GTTAGCGATG GGTGGGGAAA TACTACAGCT CAGCCGTCTC GCGTCAAAGC TCTTAAACA
212341 TTGTCCAATT TCAGCGGAAA CGGAAATGTT GTGTCAATTC CAGTTAGTCG AGCAGTAAAG
212401 TGTGCCGCGG GAAGTCGAGG TGGGGAAACT CTCAAGTGTG TGGACATTCC TTCAGTCATT



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212461 ATTGCAAACC TAATCTCTGA TAAGAGAATT CTAGATCAAC TTTGCGGAGG AGGGATGAAC
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212581 GAATCCGTTT TCTTGTCTCC TAGATTGTCT GTCATTCTTT TCGGTTATAT TTGGTTCAAC
212641 GCAGCGGTTG TTTCCCTTAC GGATAGCAAC ATTAATAATGC CCCTCAACAC AATGTCCGAG
212701 GGCAGTGGCG ATGACATTTA TAGGGACTAT TTGGCCATCA GAGGCATGGT TAATAATTAC
212761 AACAGTAGTC TCTCCTCTAT TTCAGTCAAG GCTATTTCCG ATAGGTACAA TTGCGGTAGT
212821 GGAAATACTT CAACCAGTAA TAAGAATGTG ACCATTAAGA CTCAAGGTGA ATTGTTAACT
212881 GTCCTTCAAC AGACTGCTAA TGCCTTGTC GCCTTTACCA ACAAGGGAGG CGTGGGTGCA
212941 ACCCCCGATG CTGCCAATAT GGCCAACGTT ATTTCCCCAA TTGCTAATGC GGATGTAGTT
213001 AAGAACACCA ACGTGGTTGT TTCAGGGCTA GATAGGATCA CTGAGACCAT CAACTTCTTT
213061 TCATTTTTGT CTCAGATCAA AACAATGAAC GAGAACATTG AAGAGTATCT TAGGAGATAT
213121 AGGCTAGGAG AAGGACTAGA TAAGAAGAA TTGGATAATT TTGTGTATCC AAATATTGCA
213181 GCTATTGTTA AGCGAGAATT GGGGGTAAGT GGTTCCGCAT TGTCCAGTAA TCTCGATACT
213241 GATCGTCCAA TTACTATCGA CCTGAACACT GAACAGCCTT TGATCGTAAA GGCTAGCAAG
213301 GGTTATGCCT CTAACCGCTA CGCTAAATTA TTCAACAAAA CAACAAGAAC AGCAGCAGAA
213361 CAAGCTCAGA TGGAGCAGTA TAATGCACAA ATGGCTGCCA ATACTATTCC TCAATTAGTA
213421 AACAGGTTGA CCATCCCTGG ATCCATCACG GCAGACACTG CCATCAATGT CGTTAAAGCT
213481 TTCACAGAAA ATGGAGAATT TAGTAACGCA GAAACACACT TGGGGGTAT GGGTAACGCG
213541 ATTAATGAAA TGCAACCTCT TTTACGGAC GGATTCAACG TTGCGAACAA GCGTTTAACA
213601 GTTAACGTGG GTTCAGTTAG TAAGCTGATT CAGAATGGGT TAACCGTATC TCTCATCTTT
213661 GCTCACTCAA AGGCTAGCCC CTATGTCTTT AAGCCTCTCG TGCAAGATT CGCTAAGCTT
213721 TTACTGGCAG TCACTGCAGA GACTTCTCTG GTTGTCTCTA GGTCCCAGAA GAGTTTCTTC
213781 CCCATTCCCTC CTTCAGTATT TTCTTCAGGT GGTCTTTTCA AAATTGATAG GGAAATGTTT
213841 GATAATATGA AGACAGATTA TGTAGTGGAA GTAATTAGAC AGCTATCTAA GAATGCTACC
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213961 ATTTATAACA AGGATGTTGC ATCAACCACT GCAGCTCCCG GAACCTCTTC CTCCGCTTTA
214021 ACCTTGTTCTG CCAATAATCT CCAGAACCCT GCAAAGGTAT GGTCTATGGG AGCTCTCCCC
214081 CATTTTCGATA TGGCCGTGGT ACCAAAACCT CATGGCATTT CTCACGATCA AATGTTCCGC
214141 CTATCTACAT ATTATCAGGG TATTTCATAAG ATGGAACCTA ACAGCGATTG CAAACCAGAA
214201 GAATGGGATA ATTCTCTTCC TGGAAATAGG GCTAGCAAA TCTTTGGCCT TTCTTCGGTG
214261 AGCGATAACA ACCGTTCAAT CAATTGGGCA TTGGATACTC TTTTGGCTTC ACCTGCAGAG
214321 ATTTGCGATC TGGTGACGAG GGAATGGTA AAGACCAGTA ACGATATTGT GCATAATATT
214381 GGATCGAATT CCAACACGGA CGCGCTTCAA AAGAGCCTTC AAGTTGGTGC CTCAGCAGTA
214441 GAAAAATACG ACGAGTCTAC TCTTTCTACT AAAGAACTG ACGTATATTC CTTGTTTCT
214501 GCTCTGGCTA AGAGCAAATC TCCTCTATCT TCTTCCTCAT CTTTGTCTGC TGAGGGACAT
214561 CTCACCTCTA AGGAGATTGA TAGGACATGG AACACCCCCG CTCTTCTCGG TACCGCTAAA
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214681 TTTAGAAGGA ATGTTGTGGA TGCTACTAAA TCTCTGTACG AAGTTGCAGC TGTTTGTAGT
214741 GTCATGAGTA AAGAGGAGGA TGTGCGTTCT TCGAGTAGAA AGATTATGGG AATGGTGAA
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214981 ACTAGTGGTA ACACCGATTA CAACCTTAAA GCTGTATATG ATGGTGTGTG TTCTTCCTCA
215041 TCATCAATGA CCCCCTCGTC CATGTCTGTC TCTGACAGAT TCTGGTCGGG AGTATTTTCT
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215161 TTCCAAATCA CTGCACCTAA ACTTTACGGT TCTAGAGTCA ACACCTACGC AGCTCTGAGC
215221 TCTGGCGTTG AGCGGCTGAG AGACTCTATT TCTTCTGCGA CTCAGGAAAG AAAGAATAGG
215281 ATTGCAAAGA GCATCGAAGC TCTGGAACG TTCGTAACCG ATGTGGTGGG GGGAGATACT
215341 TTGGATCAAT TGCCTAAGGC CCAGAACATG TACAACAAAC TGTGAGATAT TACTTCCAAC
215401 TCTATCTATA GTGATTTCCG AAACATTGAC TGCGCTAAAA TCATGAAGAA TGTGACGAGC
215461 AAGAAAATGA CCGCTAGACA ACAATCAGAT ACTATTCTTA GCTCTCTCTT GCACGAACTC
215521 GCTGGCCTGG TACACAAACA ACAACCTCAA TTGGCTACTC AATTGTCTCT GGCGAGCCAT
215581 GTTATCAAGG CAAAGTATGT CACTAATGAC CTCAATAATA TCCACGAGAA GGAAACATTC
215641 AGTCAATTGA TGGCCGTGGC CGGTGTTGCC GATTACTATA ATGTGTCCGC AGCTGCCATG
215701 TGTCAGCGTC TAGTTGCTTC CGACGTAACA ATGTTCCCTCG GCGGAACCAT GCTCCAACAA
215761 GGCCTGTTCTG TTTCATTCTT TCTTAACAAC GTACTTTTCT CCCAGGTTTC TGATAATATT
215821 AAAATGAACG AATTGAACGA TGAAACAAAG TCTCTTTTGG TTAACTGGT AGGATTATTG
215881 GGTACAGTTT CAGATGCGCT AGGACTAGG CACGTGTCTT CAATTAGACG TGTACGAAC
215941 GAAGAGGATA AGAAATTAGA CAGGAGTTTT GTTACATCAC TTTATTTCAGC ATACAGAGAT
216001 TTGAGGAAGA AGACTGAACT ATACAGGGAA ACTGATACTA TTAACAAACT TTTCGGACAT
216061 CAAAACCTTA TGTCTTACGA ATCTTCCATG CTCAAGAGGA CTTCTTGGT ACATGACGCT

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216121	GTTTCCGGCC	CTAGGCCAAG	AAGGTACAGC	ACCCTTGAGG	ATGTACTTGA	GGCTCCTTCC
216181	ACGGTTCACA	AATCGTTCAT	GGTTTCTTAC	CCAGAGAGGG	CAGCTGCTTC	TAGGCGAGTG
216241	AAGAGGGCTG	GA CTCAGGGC	TCTGGCTGAT	AACAGGATGG	AATCTCTTTA	CGGGGAAGAA
216301	GTCTTGAACG	ATATGAGGTC	TTCGGCGGTC	TCTTCCGAAA	TGATGGATAT	AGAGTATGGT
216361	GAGGGAGGAT	TCATGATGAT	GATTAGTGAT	GATGAGGATG	ATATTGCCTT	TATTGATTCC
216421	GAAGAAGAGT	CTGAATCATC	TACTGATTTT	TCCTCATCAG	ATGAATATTC	CGATTCATCC
216481	GATGAGTATG	ATTTTGATGA	TGATAATAAT	GGCCAGTCTC	CTTATTCAAC	TACATCTTAT
216541	TCGTATGATG	CTCTAGACCG	TCTGAATTCT	GCCGCTAAGC	CTCTTACTGC	CATCTACGGG
216601	TGCAGGGGAG	AAGGTGAAGA	CGATGAGGAA	AATGACCTCT	ATGAAGAAGA	ACAAGAAAGG
216661	AGGAGACGTC	GCTCATCAAA	GATGGGGAAG	ATCCTTAGAG	ATCTTCATGA	GAGTGATGAT
216721	GACGACGATG	ACTACTTTGA	TGACGAATTT	GATGGCGAAC	GTTCAATGTC	AGAAACTATT
216781	GCAACCAGAA	GAGCTGGCCG	TATTCAATAT	GGTCCAGGTT	TCCTATCTCA	TTCTAATATT
216841	CTTAACCGTC	CGGCTAAAGC	ACGCGCTTTC	TTGACACGAG	GCAAGAAATT	CAGGCCTTCT
216901	GCGTACGATA	GATTCTTTAT	GGAGGATGAC	GATTCCCTCC	TCTTCTCTGA	CGAATCTACC
216961	ACTTCTTCTT	CCTCTTCCGA	TTCTCCATT	TCCTCCTTCA	GCAAGGGGAG	AAAATGCAAG
217021	CGCCGAACAA	GCGAGGACCA	ATGTGCCTTT	GTTAAGAGAG	TTGTACGTGC	TTTTGTGCC
217081	ACCAGAGTAA	CAATGATCAA	TGGTCGAGTT	AGCATGATCA	CCCCAGTGAC	TAGTGAAAT
217141	ACAGTAGGAT	TCTATGAAAA	TTACCAAGA	GCCAACAAGA	GGGAAAGGGC	GCGTCTGATC
217201	GAAGAATACA	AAATTGTTAA	GGTGCCTTCA	GCTACCTTGC	CCGACGAATA	CGTAGAGGGT
217261	AGAGCATCTA	AACAAGTGTC	TCCCAGGGAA	CTGAGGAGGT	CTCTTATCAA	GGCAGCTGCT
217321	TATGTTGCCC	GCACCCAAGA	AAGTAACTTG	AATATTATCT	TTGACGCTCT	CACCACAACA
217381	TCAAACGCCA	CTCTAGTTAA	TGACCCATCT	ACTCTTTTGG	GTGATACACT	TTTGTTCGCC
217441	AAACAAC TAG	AGGCAATTAC	CGAGAGGAGG	AATAGGCTAA	TGAAAGACCT	AACTGAAATC
217501	TCTCCTTCAC	TTTTCACATC	ATTCGGTGAT	GCAAGTAAAG	ACACCCAAAT	GATGGCCGAT
217561	GCCAAACAGA	TCGTTTCAGG	AGGAAATTTT	AAGTCTGCCG	GCTATCTAGG	TGTCCTCTC
217621	AGA ACTCTTG	CTTCATGTAT	TAAGGGCACT	AATACAGTTG	ATCGTCTTTT	GGCTACCAAA
217681	AATAAGAACC	ATCTCGAATG	GATGACCACA	GCCGCTATTG	TTTTTGCACG	TTCATTCAAC
217741	GATACTACTT	TCCATGCAT	CGAAGATACA	CTAAAAATGA	CCTCCGCTTT	GACAGACATG
217801	TACAGCGCTT	TCACCAACCT	CGTCGGATCG	GACCATTTCT	AGCGTCTAAA	AGTAAAGAGT
217861	ACTCTTTTAG	ATTCTATTTT	CAACACTAGG	ATGGCTCACA	CTGAAGCAGT	CATGGGTCTC
217921	GTATACCCTA	CAGCGTTCAT	CAACCATGAA	ATGCCCTCTG	ATTACACACA	GCGCAGAGAG
217981	ATGCAATCAC	TCGCTCTTAA	CATTCTTAGG	GGAGTTAATT	GTAGCCAATT	GCCACGAAAG
218041	GATATTGGAG	ACACTGCTGG	CCTGTTGACC	TTTATTACAT	CACGTAAATT	TGCAGGTTAT
218101	GGAGGAGAAA	GGGGAGGTTT	GTCTCTATAC	AGAATGTCCA	TTGTTGATGC	TCTTTCTTGC
218161	CCCTCTGACA	ATCGGCTCAA	GGGAGCAGTC	TCTCTAGAGG	TAGGAAAGTG	GCAGGATATG
218221	GGAGAGGAAA	TCTTCTACAA	GAGGAGCAAC	GATCTGGTGC	ATTTTGTGTC	AAAGAACAAT
218281	ATTTCTCTGG	AAAATGCCGT	AGGTCCCTATT	GCTAGGTTTG	TTCCCAATGG	AACTAACATG
218341	GTTGATATTG	GCATGACCGA	TATCATTTCT	AGAACAGTCA	AGGATGACGC	TTCAATGATC
218401	AGGCTTAGGC	GCGCAGAAGA	GGGCGCTGGC	GCAGCAGGAA	AATTCATTAC	AGCCTCAGCC
218461	ATGGGTAATT	TGTACGGAGG	TATTGATACC	GTTGTGAACC	TAAC TGAAAA	ACTATACGAC
218521	TCGTTCTGTT	TGCTCCAAGA	TTCAGACTCG	TTCAATACAC	CAACAGAAAT	GGCCACTGCT
218581	ATTATCAACC	GTATGAAGTC	GAGGAAACAT	AAGGCTCTCA	AAACACCATT	CGGGGGAGAT
218641	ATTGCCACCT	ATAAGAACTT	CCCATCCTCC	TCTGAAGCAA	TTGTAGTTAG	AGCCAAGGAA
218701	ATGCGTAACT	CTATTAGCAC	TATCGTGATG	GACATTTCCA	AGTCAAGGGG	AATCAACTCG
218761	TTCTCATCCC	GCAGTGGTTC	TACTTTGGCC	AAGATTTCCA	CATCTGAATT	TGAAAGGATA
218821	CTAGAAACAT	CTGCTGTTCT	TTCAAATACA	AAGGCCAATC	TGAGAACCAT	TGAGAAATAGA
218881	CTCGCCGAAC	ACTACAACAA	ACTAAAACAA	TTCAGCCATA	TTAGTAATGA	TGGACTTTCC
218941	GAGACACGCG	CAGTCGTTGC	CGTAATTGCT	GAATCTTTAA	CCCCCGTGTA	TGCGGATGAC
219001	ACCAGCGAGA	GAGGAGCATC	TGTTAGTGAA	CTATTGACAG	ACAATACTCT	CCTCAAATTT
219061	ATTGTTCAAA	ATGAACTGAA	AAACATTGAA	GAGGCAAAAC	GTCACGTGAC	CGCCGCAATT
219121	GAAGGTTTAT	CCCAACTGCA	CGAAAAAATG	TTGAGCCTGC	TCGTTGCCTC	AGCCGACATC
219181	AACCGTATGT	CCGCCCAAAA	TAACCTCGAA	TGTAAGAAAT	TGACTGAAGG	AAATAGTAAC
219241	TTTGTACCAA	TGACTAACGA	CCAAGGTGGT	ACATT CATAA	AGCACAAAGA	AACAGGTATC
219301	TGGCTGAAGA	CCGATGAAGA	AAATAACACC	AGTTCTATCA	AGGACAATGA	TCAGCGTAGA
219361	GTAGCTAAAA	CCATCCTCGC	AATTGTAGAG	GACAATAGAA	ATGCAACCAT	CCGTCTCGT
219421	CTACAGTCTC	TTTGCTTTGG	AAAATATTGC	ATGAACGACA	TTTTTGCACT	TGATGATGCC
219481	GATATTAAGA	ATATGGACAA	ACTCATTGAA	AAACTAGGCG	AAGCACTCGC	AGAGAAGGCA
219541	TCTCCTTCTA	GCTCGGCCAT	TTCTTCTTCC	TCATCATCTA	ACACAACATC	CTCCTCTTCT
219601	TCTCCCAGTT	CTTCCCCATC	ATCATCATCT	TCCTCTTTCT	CAATGGACTA	TTCAAACAAC
219661	CTTGCCAAAA	CTATCCCCTA	CATGCCTATC	GTCTTCCAAA	ACAAACAATC	TAATGTCAAT
219721	TCTTCTGACG	CATCATCCTC	ATCACCATCA	TCATCTTCTT	CTTCATCTGC	CAATATTGAT

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219781	AATGTTGAGC	ACAAAAAAGT	GGCTCTCCAA	CAACTTCAAA	CACAAGAATC	TAACGATTTG
219841	AGTAACGTAC	TTTCTGTTAC	CACCAAGCAC	AGATTTGCGT	CTCATAATCA	AGCTGCAACT
219901	GTTGGCATCT	TCAACGGAAG	GCAACACGCA	GAGACAGTTG	TTGCTATACC	AAATGCAAAC
219961	AAGGCTAATA	ATAATGCCAC	CGTTTCCGCA	GGCCAAGGAA	TTCTTACCCG	CTTCTCAGCC
220021	CCTGAAAATG	TTTCTCCAC	CAGCATGCAA	TTGCCTCCAT	CATCATCATC	ATCATCAAAT
220081	GGAGATGATA	ATAAGGTACC	AGTAACTGTC	AGGCTTAACC	AGTACGCCAA	CTCAATCTTA
220141	TCATCTATTG	AAAACGCATC	AGAATTTAAG	GACTTGAAGG	AAGCAGAAAG	GAAAATCGAT
220201	CTGGCCATCC	AGGCAGCTTC	CACCACAGAA	ACAAAGGAAA	TGGTCACCGT	GTCTAAGTGC
220261	CCCTCTGCTA	ACCAGACTGC	CATCACTGCC	ATCTCTCAAG	CTAAATCCCT	TAAGAAAAGT
220321	GCCCTCGAAT	TATTGGAAAG	AGTTATCAAG	GCAGTCGAGG	TTTACACCCC	AGATTTCATCT
220381	ATTGCAGCCG	TTTCTCTTCC	CGTTAATGGA	GATTCTATGG	TTTCTTCTTC	CTCGGGATCA
220441	GGATCTGCTC	CCTCTTCATC	ATCCTCCTCC	TCATCCTCAT	CCTCTTCCTC	TAATGTGACA
220501	GACTIONTTCA	ACTATGCTTA	CGGAAAATTG	AAGAACATTG	ATGAAAATAC	TGAAGAAGGG
220561	GCAGAAACTG	TCCAGAAAAA	CATGGTCGAA	CAAGATGCTG	CCGTTTCGCAT	CCCTCTTCTA
220621	GTATCATATG	CTCCATTGAG	CGAAATGATG	AGACGTGCTA	TTGACAAGTT	GAACGAATAC
220681	TACCAACTGA	TTGATGCCAT	CAAAACAAAG	ATCGTGTCAG	ACACTAAACA	GGCTTCCTCA
220741	TGGGCCATCA	AGGAAACGGA	CAAGGAGCTT	GATATGGACA	AAGAACAGGT	GATTTCAAAG
220801	ATTAATAACT	TGCAACAAAA	CTTTTCAAAC	GAATCAGACA	AGATAAAGAT	GGCTATTAGT
220861	GTTTTGGACA	ACAAAAGGAA	CGAATTAGAG	CTTCAGAACA	ACAAAAC TAG	GAGCTTTATT
220921	GAAACTACAA	AGAGCCGTAT	CGAGGCTGGT	GGAGGAGATG	TAGCAAATG	CAAGGAGATT
220981	ATCGATTACG	AAAACATC	TGAAAATGAC	AACAATCTCT	TCCAGAGCCT	GAAAGCATTC
221041	GCTGCTGATA	ACTCGGGGAC	AGTTTACACC	CCCACTGACA	TGAGCAATGG	AAGAGACACA
221101	AAATCAGACA	GTAATTTTGT	CGACATGTAC	AACAAACAGA	TTCTCGAGGG	AGGAATCAAA
221161	CTCATCAATG	AGGGACAAAA	TACTGTAAAG	GTAGACTTTT	CAAAGGCTTT	GGAGGCTTTC
221221	CCTAGACAAT	CCAACGGTGC	TTCAGAGCCT	GTATCTTCTT	CAGTTGTGGA	GAGGAGACAG
221281	CGAGAACGTC	TTCAGGCTGT	CGAGATGTTT	ATGGCAATAA	TGATGGAGCG	CACCGAGAGT
221341	CTGAGGAAGA	GGTTGGCAGA	TTCGGCTGCT	CAGTGGGAATA	CTGTTAATAA	TGTAGAAGAA
221401	ACTGTTAATA	GTGGTATGGT	TAACATCAAG	AGTGAAAGGC	TCACAGAGAT	TAGGAATCAA
221461	GCACAAATCG	CTGAAAGCAC	TGCACTAAAC	TCCATCAACG	ACGAGATTGT	AGAGTCTCCT
221521	CTCACCTCT	CTTTGGGAGC	ACGAGTCGAC	CAGCTCTTGA	TCAAGGTAGA	TAGAGTAGGA
221581	AGTATCCAAC	AGCAGCAACA	GCAACAGCAG	CAACAGCAGC	AGCTTCCCAA	ATTGACAGCT
221641	ACAGAACAGA	GAAAGGAACA	ACAATACGCT	GCAGATAGGG	TTGTTTACGA	TCCTTCATAC
221701	ACCTGCTTCC	TGCAACCTCT	TCACGAGACA	ATTAACCGTA	TTTCTTCTGT	CTATAATTCA
221761	AAGAACAAGG	GTCCTCTCAG	TAACACACGT	GGTGTTCCTA	CTAGCGATGC	CGACTTGCAA
221821	CTGATGACCA	TCAGTACTT	GTCTAGGTCT	GTACTCGACT	CTTCTTCCAC	TTCTTCCAAG
221881	AAAATGCTGT	ACGAAAATGT	TCCCTCATCA	ATTGTTCTCTG	GACTCTGCCA	GCAATGCGCA
221941	ATGATGATCA	CCAACGTCCA	CGAAGCCACT	CATACTTCTC	CTCATTCAAT	CAATTTTCGAG
222001	AACAAAAGAT	CCCTGAAGCA	GCTGACAGAA	ATGTTGAACG	CTGCCACTTC	ATCCAGTGAC
222061	GGTCTGCGG	TGAGACACGA	TGTACTAACA	ATGTTAGAGT	CCAACAATGG	TTACGTCAA
222121	GATTTTGGAT	TCAGTACCG	CCAAAAGGTT	CGGTGTATCA	CCCCTGTTAA	TACACTTCTG
222181	GAGGTAATTT	TCAGTGGAAA	TGTTGCACCT	AATACTGTTA	TCCTTCTTAC	TTCTGAGTTG
222241	TTTAAGTCC	CAGGAGTTGA	AAATGACAAA	TTTAGATCCA	TGGTTAACAG	GACAACCGAC
222301	AAGAATGTGG	CTGACGCACC	CAAGTCATCT	GCAAGCATCG	TGGAGACTCT	TGCTCGCACG
222361	TCTCCCAACG	CCGAGCACCT	TTACTTCCCC	TTCAAGGACC	AGAGGCGACA	CTTCAACTCC
222421	ATCACCGACG	CCATCATTTT	TGGTATGAGC	GGCGAATCTT	CATCTCAATT	GAACACTACT
222481	TGTGATCAAA	ATCTGGTAAA	CATTGATCAA	ACTACTGGCT	TCCCAGTGTT	TACAGGAAGA
222541	AAGCAGGGCG	AAAGAAGGAT	TGTGCACACT	GAAAACACTA	TGGAAGGAGC	TCGCAAGGAC
222601	AAGAACAGTG	GCATCCCTTC	ATGTACAAAG	GACCGTCAA	CTTATATCGA	TATGGGCACA
222661	AAATTCATGG	TTGCTCCAGG	CTCTCTTCTG	AATGCTAACA	AGGAAGAAAC	TCTCCGTCTA
222721	AACAGGCTTT	CAGACATTAA	CAACGTGAGA	CATTATGGCA	CTGATGTTCA	TGTGGCAGGC
222781	GCAAACCTCTG	CATGGAGAAT	TGGTGAGGTG	GTGAGAGCCG	CCTCCTCATT	CCCTGACGGA
222841	GATAAGGAAT	CGGCTATGAA	AAAGATGCTT	CTTCTAGGAT	CTGTATCTGC	CATCTCTGCT
222901	CAAAAATCTG	CCAGTCACAT	TAACGATCCT	ACTGCTTTGT	TGAGCACCAA	CACGTCTATC
222961	CAGAATCTGG	TCAAGGAAGC	TTTCCCAGAC	CCTGTTTGT	CCTCTAATTA	CTTGGGGTCT
223021	GCTGAATCTA	CGTTCGCCAC	TCAACTCGCC	TACCGCCAGC	GCCTGTTCCC	TAACGGAGAT
223081	GACGAAAACG	TTACAACCGT	TTCAAATATC	TGCCCTATGG	ATTTGATGGG	AAGTACAAAG
223141	CGCTACAATG	ACGCTTTCAA	CAACATCTTT	TGCTCTAAAA	TGACTACTAC	TAACAAAAAG
223201	GGGTCAAATT	GTGAAAATCT	ACTGAAATCT	GCCATGTCTA	ACGTTCTCTG	TATCAACACT
223261	GCCTTTGGAG	CCTTTGAAGA	AGCTTCATCT	TCTGTGAGGA	ATAGGCTTTC	TCCCCTTTAT
223321	GAAGACAGCA	CCAAATATTC	GTCCAACCAA	CTTGCTGTAC	AGGCCATGAC	CGATACTGCT
223381	GTGGATGCTT	TGTCCGCTGT	TTCTACTGTT	GTCGGTCGCC	AGAATGGCAG	AAATACTCTT

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223441	CTTCTCTCC	CTACTTCTAT	TACTTCTATC	GCAACCAGTG	GCCGTCCATC	ACTCTCTTAT
223501	TCTTCGGACA	TGAAATCTAA	CCTCATCAAG	ACAATTTCCC	GCATCAATAG	AGACGCTAGC
223561	CTCCTGTCAA	TGGGAGACAG	CCAAGTAGCT	GCAGGTTCTT	CCTTCTTTAA	CTCTTTCCTT
223621	CGTTCTTCTT	CCATCCCTGT	CACCACCAGC	CAGGATGGAA	ATGTTGCAGC	AGCGGAAATT
223681	GTTCTGGGGA	CTATTCTCGA	CAAGACTGTG	GAGATCAACA	AGAGATTCTGA	GATGCTTGGA
223741	GGAGGAAAAA	TGGTCGCCGG	GAGTCTTGAA	GCTCGTGCCA	TCCAGCGCAA	TACAATGTCC
223801	TCTATTCTCC	AGATGAACGA	AAATGAACTC	GCTCGTGACT	TGTGCGAAAT	TGAAAAATAAA
223861	ATTGAGACTA	GGCAACTGAG	GGATGCTTTC	CAGGATTTGA	AGAGGTCTAT	GCTGATGACT
223921	CCAGGAGGCG	TGGGAGCCAT	TTCTTCTGGA	GCAAGTACCA	ACAATGTTCC	CCTTCTCTT
223981	CTCATGTCAC	GTGTCGATGC	ATCCAGCGGT	CTTCTGATGA	ACAACAACAG	TGCCAATGTA
224041	ATGGAAGCTG	TGGATAGTTT	CAATACTACT	CCTTTGCTCG	TTAGGCACAT	GATGTTGGAT
224101	AGTGGAAAGT	CCCCCGTTCC	CATGGCCAAG	GAAATTAGGA	GCATGCTGAC	CCAACCAAGA
224161	GCTCTCACC	CCCGCGCTCT	ACTGAGCGAA	TCTTCCCCTC	TTCTCACTGA	AATCTGCCTC
224221	TACAACACCC	GCGACACTCA	ACCAGAAAAG	GCAGTCGACA	GACTACTAAC	TTCAGCCTAT
224281	CTAGTAAAC	AAGCTAAAG	ATTCGACGGA	GTTGACCCAG	CCTTCCCTGC	CGCCCTCACC
224341	TGCGCTTCTC	ACCTCATGCT	TTCTTCCATG	GATTCCCATA	CAAAGTCATC	TTTCATGGAC
224401	AACATCAAA	TGCACATGAC	TGATACTCAA	TGCTTCTTCA	AGAACATTGA	ACGATTTGAG
224461	AAATTCTTGG	GAAGATATGG	GGACGAATAC	GCCATGTCCC	ACAAGCAAAA	TTGTAAGTGC
224521	CCCTTCCATC	TCCACCACAC	TTTTACTCCC	TCAGATAACG	AGCATCTGGT	ATCCTCTTTC
224581	GCATTGCCCC	GCCCAGAAGT	CTCCATGGAA	GAAATTAGAG	CCACACCCTA	TCAGGCCAAC
224641	AAGCTTATTA	GTGACAAACA	TTACGTGATG	AACATGTCCA	AGATCGATTTC	TAGAGTAACA
224701	GGATCTTCCC	TCCTTAAGAA	GGTTAGCGAA	TGGACTGAAA	TGAGAATGAA	CTCCAACCTT
224761	AATGGAACAT	TTGAACCATC	AAGACTCGCC	CTCTCCAAC	CTGGCATGAC	AACGGCAGGA
224821	GTCAACCTCG	ACGTTATTGT	CAAACCAAAT	AATGCAAGAA	GTGTACTAGG	AATATTGGAA
224881	TGTCATCGCC	AGCACGTGTG	CACCGCCGAC	GCCAAGGGAA	CTGTCGCTTC	AGCCATGCCA
224941	CCCGTCTTCC	AGGCAACCGA	TGGAACCGGT	AACGAATCTG	AACTGATCCA	GAATGCTCTG
225001	CCAAGGAACA	GATACATCCA	AAAGAGCACA	ATGAACGCTC	AACTGTCTGT	GTTTGCTAAT
225061	GTTTTGGAAC	AACTTATCGC	CGATCTTGGA	AAGGTTATCG	TGAACGAAC	GGCCGGCACC
225121	ATCGCTGAAT	CTGTACCAGA	AAGCGTATAT	GAAAACACCA	AGGAAATGAT	TGATAGACTA
225181	GGCTCTGACG	ACCTCTTCAA	ATCTAATAAT	AATGGAGGAG	TAGAATCAAT	GGATTATGAA
225241	GATAGCGAAA	CAACATCCAA	CAATGGTCCC	GTCCTCATCT	CAGAAGCCAT	GAAGAATGCC
225301	GTCTATCACA	CACTAATTTT	CGGCAAGGCA	GCTCGCCCGG	AAAATGTACC	ATTGCGCTCA
225361	TGCGCCAGCG	GCCCTCTCGC	CTTTGATTTT	CTTCTGTCAA	AGGGAGATAC	ATTGGAAGAA
225421	AAGAACGCCG	AACAAGGTGC	AGCAGCTGCC	GTATCCTCTA	CCTATTCTTC	CTCTTCTAAC
225481	ACTACTTTTC	GTAAGCATTT	GGCTCGAGTT	TTGGAAGCCA	TCTCTAAGCA	AGTAACTGAT
225541	GCTGAATTTA	AGGATATCCT	CAACGATATC	GAACGTAATA	TTTCTTCTGA	CTATACTAAC
225601	TGTCCACCAA	ATACTAACCA	AAATGCCTTT	GCTCTAGCTA	TCAAGAGAGA	ATTGACGACA
225661	ATTGTTTCCT	TCTTAACCAT	TCTTCGTAAG	AACATTACAC	CCGCATAGT	CGACCTTAAA
225721	GGCGGTTTAC	ACGAGAAAGT	AGCCATCTAT	TTGACCCTTC	TTTCAACCAA	ATCAAAACTA
225781	GAAAACTTTT	TCCAATACGG	TCTCAGTAAT	TCGTCTCTCAG	TTGATCTTAG	CCATCTAAAA
225841	CCCATTAATT	GTAGCAACAA	TGTCAAGAAT	ATTGAAGACA	CATTCTATGTA	CAGAAATGTC
225901	CACCCTATTC	TTATTATGGC	CCTCCCAGAA	AATTTTACAG	CTCTCTTGCA	ACAGGAACAA
225961	ATGGACCCCG	ATACTGCCAT	TGAAAGCAGA	CGCTCCCTTA	CCACCTTCCT	TAATCATCCC
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226081	ATGGGCTTGT	ATCTTTCTTC	CCACATCTT	CACGAGTCTA	CCGTCAACAC	ATCAAACCCC
226141	GTCACAGACA	CCACAGAAAA	CGTCAACTAT	CATTCTCTCTG	TTACACAAGA	TCCTGTTATG
226201	GTAGTGAACC	CCTTCAAGGA	TTCTGCTAGG	TTGATCGTTA	ACAACAACAA	TACTGGAATT
226261	GATGTCTTGA	ATGATAAGTC	GTGCAACTAC	TTGCAAGTAT	CCATGCCATC	TGAATCATCT
226321	GGCCTCGTCA	CCAATACTGG	ATGCTCTTCT	TCTTCTTCCT	CATCTTCGTC	TGATACCTTC
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226441	TGTTCTGATG	CTTCTCTTAA	TCTCTTGGAC	GTGTTCTCCA	GGGCAGATAT	TGTCCTCGAA
226501	AACATGAACG	TGAGATTTGG	TTTCATGCCC	GAGATTATTG	CTGCCGTCTC	CAAATTCAAG
226561	GGGCTGACCA	AGGAAGAGGT	TATTAAGCAA	ATGGTTTCTC	AGAACAACAT	CAACAACAAC
226621	AGCAACAACA	ACAACGGAAA	TGGGAAGAAA	ACAACCGTCG	ATCCAGTCAC	TGGGGATATT
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226741	ACATCATCAT	TCAAATGGGG	AGATATCAAC	GACAGAAAAA	TGCAGGCCAA	GGCTTTCCCC
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226921	ATTGGCACGG	GGGCTCTGCG	TGCAGCCGCC	AACACCCGCC	TCTCATCCGA	CATGGAACCT
226981	GTCATGAAGG	GATGGAACAA	CATTGTTTCT	CTTCAACAAA	CATTCAAGAA	AGCTTCAGAT
227041	AAACTCACTC	ATCTTTTGAG	ATCGGGAGGA	ATTCCACCCA	GAAGCCAAGA	AACAAACGCT

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227101	ATTATTAACA	AGATGCACGA	CAGCTTCAAG	ACATTGGAGG	AATGTCGTAG	GGTGATCCAA
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227221	GCTGCTCTGG	CCATGGTTTC	TCCAGTACGT	CCAGAAATGA	CTGGTCTTAT	TGGTGCAATC
227281	TCCGCGCCAG	TTAGAGGTAT	TAGCCACTTG	TTGAAACTGG	GAGGTGTTTC	TGCTGCTAAC
227341	GCAGCTATCC	GCAAGCGCCT	CAACCTACCT	ACATCCAACG	GGAAAACACT	ACCAGAACAT
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227641	CAAGCTATCC	TTAAAATGCT	CATTTCTAAC	CCTGAAATTC	TAGAAAATGT	TGCAGATACC
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227761	GCGTCTCTGA	CAGTCGGAGG	AAGTGGAGGA	GGAAAACGTG	CATCAGACGA	CAATGTTCAA
227821	TCCCTGAACC	GCCTTTATTT	TCGGGTCTAG	ACTAGTGTA	TATTGTATGT	TTAATTTATT
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228121	AGCATGAAAG	CGACCATGCT	CAATCGATG	ACGACAACGG	CCAAGCCGAC	GATGATGTTT
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228241	AAACCCAAAA	GTATAAATTT	TATTCTATAC	TGCTCATCTC	ACTCTTCCGA	CCTCACAAAG
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228361	TATTTTTGTC	CAGAAATGGA	TAAAGTTTGT	GTTATATCAA	ATACTAGGGA	GCGCACGTTT
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228481	GATGCAGGTA	TAGAAATCGA	GACAAGAGTG	GTGGTGTFTT	CAAGGTGCGT	CTCGGTCCAG
228541	GAACTACATA	CAATAAATCC	AAATGATGAA	GGATTTTCTG	TCCAACCTTT	CAAGGACTAC
228601	CTGAAATTGC	AATCTGCACA	AGGAAAAAAA	CCCATTGGTT	TGTACATCCA	AATAAAGGCT
228661	GGAGAGGATC	TTGAAAGGAG	ATTAATCAGT	GGAGGAACTG	CATACCTGGA	TCCGGCAACA
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228781	TCCCGTCTGA	AAATCATTGA	TGAAGACACG	TACAATGGTG	TTGTTTTCTC	TAACAGTGAA
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228901	ATTGAAGCAG	CCATAAAAAA	AATAATGCTA	AGGAAAGTGT	TTTTCAAGGA	TGGAGATCTT
228961	GATTTCTGGT	ACTTACGTAT	ACCAAAATCT	AAACTGGACA	AATTTACTCC	CTATTTTTCG
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229201	AAGTGTGAAA	ATTTATGTTT	TAGGGACATA	GACCTCAGAA	AAAAGGAAGC	AAAGGAAAAA
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230281	GTACAAGAAA	TGTACGAAGA	AGATGGAAGA	AGATATGAAG	CTAAATACAC	TGGAACCTTA
230341	ACCGAGTACA	AAAGAAATGA	GGACAAAACC	TTCAAATCTC	TTCTTGCTCC	TCATTTTAACA
230401	CCTGTCAACA	AACCATATAA	TATTAACCAT	TTGTATGAGC	AATATGGAAA	TTTTGATGAA
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230521	GACAACCTGGG	GCAGGTGTGC	AACTGGAAAG	GGGGCGTGCA	TCTAGGACCC	ATAACTCAAA
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237481 CTCGTTTGTA GGTATGGAGC ATCTTGGGCA AACACATACG GGGATCATAA TGAATCTCTC
237541 AAAGCGTTTG CAATAAGAAA TGATGCAAAA GATTGTCTGG AAATTATAGA GTTTATAAGT
237601 GACGCTACA GTTTCAACAA AAATGTGACG AAGGAAGAAT TTGTTAAGA GAAGACTGTA
237661 GAATGTGTTG GATGTTTATA TGATATTGAA GACGAGAAAC GTTGTTACAA ACTCCCATGT
237721 GGACATTTCA TGCATACATT TTGCTTGTCT AATAAGTGTT CTAAAGCTAA CTTTAGATGT
237781 GTTAAATGTT TCCAAACCTT TGATGACACA ATTTTTAGAA AATGTCCCCC AACTATACAA
237841 TGGAAATGG GTATAAACCA AACGACTAAC CATAAGGAAA TGGATTTGTT CAATCGTGCA
237901 TTTGACACAT ATTTAGATTT TATTTGCTCA TATAACGTCA AATTAGACAA AAAATCAAAA
237961 CCTAAACACA AACCTGAAAA CAAAAGGTG GAAGAAGAAC TAGCAAAAAG GACAGCAGAA
238021 ATTGAAGAGG CCATAAGAA AAAGGAAGAA GAACTAGCAA AAAGGACAGC AGAAATTGAA

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238081	GAGGCCATAA	AGAAAAAGGA	AGAAGAACTA	GCAAAAAGGA	CAGCAGAAAT	TGAAGAGGCC
238141	ATGAAGAAAA	AGGAAGAAGA	AGAAGCTCTA	AAATATAATA	AAATAATTGA	AAAGGGAAAA
238201	AGACGACTGA	ATGAAGAATG	TGTCAAGCTG	AGAGATATTT	CAACTGCAGC	CATAAACATG
238261	TACAAAGAGA	AAGTGAGAAT	TAATGGTGTG	TTACTAAAAG	ATTCCGATCA	GGAGTTGGCT
238321	GAGGCGAAAG	AGAGGTTGAG	GAAAATTTTA	TTGCTAGAAG	AAGAAACAAA	ACTTGACAGA
238381	TTTTTGTTTA	GACCGAAACG	AGTAGAAGAA	CGTATATTCC	TAATAAAGA	TGATGAAACG
238441	TTAGCCTTCA	AGTTAGCCCT	AGAAAAGAAA	ACGGAGGACA	TAATTGCGAA	GAAAAACAAC
238501	CAAAAAGGCA	GTGAAAGAAG	AGATGGAGAA	TATACTATAA	CTTCTCATAT	TGAGAAACTA
238561	CCTCAATCCA	CTGCTTTGGC	TAGTGTGTGT	GTGTTAAACG	AATAAATAAA	AGTATAAAAT
238621	GTAAATAATAT	TGTTTTAATA	TCATTAATAT	TTTACCACAA	TGTCTACTTG	TTCGAATTG
238681	TTGTCAGTAT	TTGGTGGAGG	AGATTGGACA	ACAACATTCC	CATTCGACCT	CGTCCATACA
238741	CGTCAAGAGT	GTGATAAAAA	GAGAGAGCAA	GACTACTCAT	TTTTCTATTAC	TGAAACGTGT
238801	AAAGGAGAGA	ATATTGGTAT	ACATTCGTAT	GAACACACGT	CAAAGATTAT	TGACACGGGT
238861	AATAATGATT	CTACCTCAAT	AGAGGAACTA	GAAGTACTGA	ATATATACAA	AGCTATAAAC
238921	CATTTAGAAA	ATATCCTAAA	ACTCAACAAA	GGAGAAAAAA	TTATACTGAT	GGATGTAGAA
238981	ACAATGATAC	TGGAAACTCA	TAAAATTTTA	ATGAAAGGGA	TTCTTCCCAA	GGGTAAAAAT
239041	GGAAGTTTCA	GTACATGCGT	ACGCTTTGCT	GTAATAAAGA	ACAATGAACG	GCATTACTAC
239101	CCTGTATTTG	AAACAGAGAA	AGAAGCGTTC	AATTCTATAC	AAAATCTAGT	AGATTATTAT
239161	AATGAAATTG	TAGCTCACAC	CAATGACCAA	ATTAATAATA	TAAAAGCGTG	CGCATATTTC
239221	ATGTACAAGT	TTCTAACTCT	CCACCCTTTC	AATGATGGTA	ATGGAAGAAC	AGCTAGATTA
239281	TTGTATAGTT	TTCTATTGAA	AGGTAATGGT	ATCGTACCTC	ATTTTTCACC	CATAACACAC
239341	CCTAGGGATC	AATTTGTTGA	TACTTTAGTG	TATTTTAGAG	AACATGGAGA	TGGACGACCT
239401	TTATTGTATG	TTTTGCTGGA	ATCAATAAAA	AATAAGTAAA	ATTCATTTTG	AGGCATTTAT
239461	TTCTTCATCA	ATTCATATGG	CATCTTGCCA	GTTTTCTGTA	TTGTTATCTC	AGCAATAATG
239521	CGTAACACAT	CAGCAGATGT	GCAGATTTTA	TCCCCTTCCC	CATCCCTCAT	GGTATTTCCCT
239581	CCTGCAAAGT	AATGGAGGAA	AGAATCTCCA	GTAATGGGGT	TAGTTACATT	CAATACAGCA
239641	AAGAATTGGC	CAATATCTTT	GTCGGCCAAC	TTGTACAAAA	GTCCTTGGT	CATGACTTCA
239701	CTCATAATGA	TAGATTTTCC	AGTGGTGTCA	CAATGGGGG	ATTTATCAAA	CGGCATGGCG
239761	GGGTAATTGG	GGTGGAAATG	GTTGGAGAAT	AACACCAGGT	CGCCGAGGAG	GGCAAACCTC
239821	CCGTGCTTGT	AAAGCTCCTT	CCACAGGGGC	GATTTCGTCT	GCTTGTAGTT	GCAATGAAGT
239881	AGGACAGGGA	ATCGCCTGAG	TACGTGGGAC	AGCACTTTGA	AGCTCATCTT	TTCGTCCGAA
239941	GAAGAAGACA	GTACACTCTC	TCCAACATCG	GTGACAATAT	TCTTCCCTCC	CGACTTGTTT
240001	TTGTACAATG	GAGACTCGCA	ATCGGTGAAC	ATGGCGTCGG	TAGGGAGGAG	CATGGTTTGC
240061	ATGAACATGC	TGTCCGCGTT	GAAAAAGTCC	TGCTCGGCAA	TGGAGAATAT	GTTTTCCAAT
240121	TTGCTTATAA	GTGAGTCCAT	TGCTGCTGCT	TGCTGCTTGC	TGCTGTTAGG	CGTCCAGAAA
240181	GCGTGTGTTA	ATTTCTCGGC	GGAGGACTGT	TCTTATATAC	AAATTCGTTA	AAGGGTGACG
240241	CCCACAGATA	AGAATGTGGT	TAGACTTGAA	TCTATTTGAA	ACCATGACAA	GGCATTTTCT
240301	TTTGTAAGGG	GTGAATAAGG	ACTAGACTCC	TCTACCAGAA	TTCATGTGCG	TCATTGCAAG
240361	CAAAAACCTC	CTCTTGTTCC	AAGAATTGGC	TAGTGGGCGG	CTGCATGCCA	CTCTGTATGA
240421	CATCATTTCC	TTATGTGCAA	TGGATAATTA	TAATTTGTAA	TATTTGAAGT	CGTCGGGTCC
240481	GGTCCACCCA	GAAAGGGGGC	GAATACACAT	AACATTTCTG	GGGGTGTATT	TAGTGCATTA
240541	TATCTGGCAT	CCAGAAACGG	ATGCAAGCAG	TATCTGAAAC	TCTCTCTCAC	TTTTGACATC
240601	AATGAAAAAT	TGGACATCAA	CAGGCATTGG	TGTGGTGGAT	AAAAGGGGGC	AACCGGCTAT
240661	GACTAACAAG	CATTTCTGCT	CTAACCTGCA	GCCAAGCAAC	AGCATATTAC	ACAATGGAGG
240721	ACCTAAAATC	CACATCGAG	AGAGTATATG	AAGAAAGAGT	GGAGAATCTA	GAACAATGGA
240781	CAAATACTGT	AGAGGAAGAA	GAAAGGACTG	TCTCAGCAAT	CGATTCTGTC	CTGGAGGAAC
240841	AAAAAAGGGC	CCTGGACGCA	TGGGAAGCAG	CGATAAAGGA	ACGAGAAAAC	GACCTCGCAG
240901	TAAAAGAAGG	GATATCTGCA	CTCGTTTTCA	ACGCAGCAGA	CGCCAAAACA	CGTAAAGAAT
240961	TGATAAATAC	GTGGATAGCC	GAAAGGGAAA	CGTCAGAAAA	AAGAAGAAAG	GAAGCAACCT
241021	CTACCAATAA	TCAACTGAAG	AACCAGATGT	CATCTCTAGT	CAACACAACC	AAAACACTCA
241081	AAGAAAAGTA	CAACAAATAT	TACAGAAGAA	GTGCCATACT	CAACATGCAA	TACATCAATA
241141	ACAAAAGGGA	TTATGAAGCA	AGTCAATTTT	GGGTGTATAC	AAACAATGCA	TAAGTTTTCA
241201	AATAAATTTT	ATTTTATAAT	AAAAGGTGTT	TTAATTATAA	TTTTTGTCCC	TGATGTTGTG
241261	TTTTCTATAT	TTTTACTGCC	TCCTCTTGGG	GTAAGACATA	AAAACGGTGG	CGGCGGAAAC
241321	GAGGAACAGA	AGAGCGGACC	CAGCCAGAAG	CATCATATCC	CTGGTCCTGT	TCTTATATTT
241381	GTCCTCATCA	TCGTTATCGT	TGGCAGTGTC	GTCATCATCA	TCGGTGTCTT	TATCAGTGTC
241441	AGGATCGCTG	TCCTTCTTTG	GTCCCATCCA	TACATTCTAT	ACGGCCAGGA	CGAGGATACC
241501	AATTGAGATA	GCAACGATCA	AAAAGAGACC	CATGCGAGCC	ATAGACATGG	AGCCTTCAAG
241561	ATCTTCCATG	GTGTAAGAAG	GGCCAGCGGC	CTGGGCTCCG	GTCCTGCCGA	AAGGAAGAGT
241621	GTTAGTCGTG	GTGGCCATTT	TTTTTCTGTT	TGATGAAGAG	GTACGTCAAT	GTAACGTAAA
241681	GACCTGTTGT	TTTATCGTGT	ACGGTTTTTG	TCAGGACACC	TTACGAACCT	ATTTGTCTTT

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241741	TTAGACTTAC	TCAGCGTTAG	TTGTCGCAGT	TGGTCATGTT	CCGTCAATTC	TGTTCACTAT
241801	ATCTTCTTCA	ACGCCGGGTT	AACGACAATC	TTAGATCCAC	GGCGTCCGCT	TCGGCAGCGG
241861	CCTCATTA	AGGAGATGGA	ACTGAATTTA	TAACCGGAGA	ACCACCTTCT	CATAAAATGA
241921	GGGGACCTTC	TTATAGCGTT	TTAGGACCTG	ATCCGTGCGA	GGACCCAGAA	AGGGTATATG
241981	TTGATATTGT	AGTGTCTATT	TTGCAGACAA	ATAATATACA	GGTAACAAAA	GAATGGGAAT
242041	TGTTTTCCGA	TAAGTTGAGA	AAATTGGGTC	CATGGATTGA	TAGGAGCGGA	ATTGAGAATA
242101	ATGGCGAAGG	AGAAGAAGAT	GGAGATGAAA	ATGAAGACGG	GGGTGGAAAT	GGGGGAAGAA
242161	TTGAAGACAG	AGAAGCACAT	CGACGAAAAA	TGATGAAGAA	ATTGTCCTTT	GTTGGAAGAG
242221	AAGATCCAGT	CGCTGTAGAT	TTACCCACGT	GGCGAGAAAA	CAGTACAGAA	TTTGCACGTC
242281	GTTTAACACT	CAAGGAATTG	TGCGATTAA	TAGTTGAATG	TGGATGCATC	AAATCAAAAG
242341	AGGAACCTTT	TGACTTCATT	TTTGAAGAAC	CGTGGAGAT	TAAAGAGGCT	GCTGACGTTA
242401	GGGGTATGGC	AAACAGGAGT	AAATTCACCA	AGGAATCATT	AATTGACTGG	TTTTTTGAGT
242461	TCGACACATA	TAGTAAATGT	GTAGTATTTT	TTGAAGCAGT	CAACTGGTAC	TTGAAATCTC
242521	AAGCGTCTCC	AATTTTCATTG	GTAAGTAGATG	ATATATATTG	TTGTGTCTTT	TCCTACATAA
242581	GACGCCAAAC	CTTTTTAACT	AGGGCAAAAA	ACCCATCTTT	AACAGTGGCT	TCATCCTTTT
242641	CTCCCACGCC	CGACACAAAG	CTTTTGGCTA	TCGACGAGTG	CGTGCAACAC	TTTTTAAAT
242701	CAGACATTAA	TATTAGCCAG	ATGGCATTAA	CTGAAAGGGA	CTGCTTCTTC	CCTCTTTTAA
242761	CTGAAATGCC	CCGCCAACAA	AAAAAAGTAA	ACACCTTCCT	GGACACAATG	AAGAGACCTA
242821	CCTTATCTCT	TCTACCTTCC	ACCTCCTCCT	CCTCTTCTTC	CAACAACAAG	AGAAAGAGAA
242881	ATACTGCCCG	TGCCAATATT	CTTCTTCCAG	TGTACAGGAG	TAACCTTTCT	ACAGCATCCA
242941	ATAACAAGAG	ACTGAAAAC	GATGATGGGG	AAAATGCATC	AGCCTGTATT	CTTATCGAAG
243001	GGTATGCGAA	TGGAAAAATA	AGCCCTATAA	GGATTATGGT	AAGAAAAATCA	ACTATTATTC
243061	CAGAAGTGTT	TAACCATCTT	TTGTTCCCTG	TCTTTGCCTC	TAAAGACACT	GGTGCGAATA
243121	TCTTATTTTT	TATCAAAATG	AAATCCTTTG	CAAGTGCATC	TTTACTCCTC	CCTGGACTTT
243181	TTAGACACCC	CAAACAATTT	CTCAACGGGC	CGTGCAAATG	GATGACTCTA	GCAGAAAACA
243241	ACATCAACGA	CAACAACATA	AACTCTTCCA	CGATGTGGAG	TTACACGCTA	GCAGATTATT
243301	GTCCTCTGGG	CTATTACACC	CAAGAGAGCC	CTCAACCCTA	TCAGACATGC	GGCAATTTTA
243361	CTTCGACTAC	AAACAAGAGA	CTACAAAACG	TGCAGCCATT	ATACTTTTAA	ACACTCTTTT
243421	GGAACTACTAC	AGGACACCTT	CAGAAGAGTG	GGAAATTCCT	TTTAACTCTC	TGCTTAATGT
243481	GATGAATAAC	AAGTGGAGTA	CACCTATTC	AGGTGTCAAA	ATAAGTGCAG	GTATCATATC
243541	GAAACTCCCA	TGGACCATGA	AAACAATGTA	CGAGATTGTT	TCTTCGCCCA	ATAATAATAA
243601	TAACAACGGA	GACTACTATT	CTACATGCAG	GCGAATGGTA	ATGGAATATC	CTATCGGGGG
243661	TTTATTGCAC	ACGCCTGCCA	TAACTAATAA	GTATCCACGC	TCCAGAATGG	TCACCTGTAC
243721	AAAGGGCAAA	GACCACCAGA	AGCTATATGA	CATCTCTAGA	CAAATGTTTG	ATATAATAGA
243781	AGCAAATGGA	CAACTCTGAT	TATTATTATT	ACGGTTACGA	AAATTCCCCA	AAGACTAAAA
243841	AATTCAATAC	TGCACTGATG	ATTGGGTTCA	TTTTATTTAT	TTTATTAATC	ATCGGAATTT
243901	GGGGTTTATT	TAGATCTCGA	AATGCAACCA	CCCAAGAGAG	CAAAACTTCT	TCCCCAACAA
243961	TCTCCTCGAC	CCCAACTACA	TATTCTGGCA	GCTCAACCAG	CAGGGGTCCA	GGTTCTGGAT
244021	CTGGAAACAA	ACCCAAAGAT	GACACATCCG	TTGAAGGAAT	AGACCCTGGC	TTACTGTAAAC
244081	AGAAATAGAA	GTAAGAGGCG	ACAGCTCGCT	TGCCAATTGT	CCTGTACGTT	ACTCTGTGGT
244141	TTCACGAGGT	TGTCATCACC	AAAGGTAACC	TTTTTTTTTG	TCCTCGCCGA	CAAAACGACA
244201	TCTTAATAAC	CAAGCAACGT	TCGATAAAGA	AAAAAACTCG	TCATGGATCT	TTCTTTCACT
244261	CTTTCGGTCG	TGTCGGCCAT	CCTCGCCATC	ACTGCTGTGA	TTGCTGTATT	TATTGTGATT
244321	TTTAGGTATC	ACAACACTGT	GACCAAGACC	ATCGAAACCC	ACACAGACAA	TATCGAGACA
244381	AACATGGATG	AAAACCTCCG	CATTCTCTGT	ACTGCTGAGG	TTGGATCAGG	CTACTTCAAG
244441	ATGACTGATG	TGTCCTTTGA	CAGCGACACC	TTGGGCAAAA	TCAAGATCCG	CAATGGAAAG
244501	TCTGATGCAC	AGATGAAGGA	AGAAGATGCG	GATCTTGTC	TCACTCCCGT	GGAGGGCCGA
244561	GCACTCGAAG	TGACTGTGGG	GCAGAATCTC	ACCTTTGAGG	GAACATTCAA	GGTGTGGAAC
244621	AACACATCAA	GAAAGATCAA	CATCACTGGT	ATGCAGATGG	TGCCAAAGAT	TAACCCATCA
244681	AAGGCCTTTG	TCGGTAGCTC	CAACACCTCC	TCCTTCACCC	CCGTCTCTAT	TGATGAGGAT
244741	GAAGTTGGCA	CCTTTGTGTG	TGGTACCACC	TTTGGCGCAC	CAATTGCAGC	TACCGCCGGT
244801	GGAAATCTTT	TCGACATGTA	CGTGCACGTC	ACCTACTCTG	GCACTGAGAC	CGAGTAAATA
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244921	ATTGAGGAAA	TTTATACCAT	ATTTTATTGA	CCTACTTAAC	CTTCTTGCTA	TACAATGAAT
244981	GTTTAGGTGA	CTGGAAAAGT	TTAGCAATAT	TATCCTTGAA	CGGGAAACAT	GCACCAATTA
245041	CAGGCGCAAT	TTCATACGCT	CTCGGCCTAT	TGGTCTTTTC	CTGGTCATAC	ATTTTAGATA
245101	CAATAGACAA	AAATGGAATG	TTTGTATAGA	TAGAATTGGC	AGACAAATCT	CGAGTTCTCT
245161	TAATCAAAAT	GGACAACATG	TCTATTAAACA	AATAAGCCAA	CCCAAAAGTC	ATGGCAGTTT
245221	CTGAACACAA	CTCACTGTTA	ATAAATTCAG	GAGCTGTATG	AGGATGGTTA	CTAAAGAACC
245281	TCTCATCAGT	TCCCCAACAT	TTAAAATTGT	AGTACTTTTT	ACATGGTACA	ATTAACCCAA
245341	AATCAATCAT	CTTAGGTTGA	CCAGTTATTC	CATCAATTAC	TATATTGTCA	CTTTTTATGT

245401 CCGGATTCAC TAATCCTTGT TGAGACAACC GAGTGACAAT ATTTACAATT TCTACCAAAA
245461 CAAAGGGCAA TTGGTTTAAAC ATTCTCTCCC TCATTTTTC AACGATAGCT ATGGCTGAAA
245521 TTGAATCCGT AATGGGTTC TTGCATTTAG ATTGTAGACC TTCAGGCAGG CGGCCAGTAG
245581 CTTGAAGCAT CCTAACACCG TACAGAGTAT CCCTCATCCT ACACAAGCTG CCATGATCTT
245641 GCATGAGCTC AGCGGCTGGC TTGGAGGAAG TAGTCGAGGG GTTAGGTTGC TGTACAACAT
245701 TCTCGTCCAT TTTACATTTT AGGTCTCCAT TTAATACATC AATCACAGAA ATGCCTGCAA
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245881 TGTCCGTCAT AAACCTTGATA ACTTTTCCAG TTTCAAGCAT GTAATATACC CCGACTTTAA
245941 CTTGAGATA TAATTCAGAT GGTCCAATCA TTACGACTTG AGAAGCATAT TCTGGTTGGA
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246181 TCTTGCATAA CCTGTTCCAG TTCAAGAGAG GGCTAGTGTC TAAAACGGAT AGGTTTTTAC
246241 TACCAAACCC AACAGGCCAC CAAGATGAAG GGGGTTGTTT AGTACGGTTG TTAGACCACA
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246361 ACGACACATC TTGCACGTCA GAAATGAGGC CTAATTTTGC GGCCTGTCTA ATCAAATGGA
246421 ACGGAGATTC TAGACCGGCT GCAATATTGG TATCAGCCTC TGCCACTGCA AAGTAACACG
246481 GGGGTTTTTC TAGCTTGACC CACTTGTCAA TGAAGAAAAA GTTCCTCTTT ACTACATTTG
246541 TTTGAGTAC GGTATCACAA GAAGATTGCA AGTGTTTTGG CCCCTTGACA TGGGAACGGA
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246661 TTGGATGAGA GAATCTTTTT CTGTACTGGG TGTCGGCATT GCGCGGCTGC TTCTCAACA
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246961 GAGAATCTGA GGGAGGGGAT CGGCGAGTAG CGTTTTTGA GCAACAAGAT TTCACAGCTA
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247081 TCGATTGGTA AAGTCCCATC ACGGTGTGCT GCGTAAGTTT TGTCCGTTGG TCCCCACCCT
247141 CCATTTTAAAC GACGTTTTTT ATACTCTGCT CGGGCTCTGG GTCAGAGGGG GCTATAGAAA
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264361 ATTGGATTTT TTCTAGAGTT ATTTTCATCTT TCCTAAATAT AACTGGAATC TCAAATCCTT
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264481 ATGCACACAT GAGACTCTCC TTTGCAGAAT TAGATTTGCA ACACAGGAGC ATGTCTGCAG
264541 ATCCAGAATC AATCAAGCCG TGGTCGTTAA GAAGTCAAT TAGTTCCTTG ACCATTGTAG
264601 TTTTCCCAGC TCCAGGAAGA CCACCCAGAT GGAACACAGA TATTCCTCCT CCAGCATAAC
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264781 AGGAGGAAGA AGAAGACCCA GAAGGGATG CCGCTGCAGC TGCAACTGCA CTTCTGAGCA
264841 CCTGGGTTCT GGTAAGCCAGA AAGGGGTATG ATTTGATGTT GATAACTGGA ACTGGATTG
264901 AATTATTGTT GTTGTCTTTC TTTTGTTTTT TGGTAACTGG CTCTTGGCCG CTGGAGCAGC
264961 GACGTTTACT CCCCATGATG CACTCTCGGT GAATGTCGGA CACGGGGGTA AAACCAATCC
265021 TTTTATACTA GTTCTACCTC CACGAGGTTG CCAGATGGTA CGATACTTTA TTACCAAAAA
265081 TGGATCGTCC TCTTTTGCTT AAGATTTTGT GTGTAACCTT TATCGTTACG ATTGTTACAA
265141 TATGTCTTAT GGCATTTTTT ATACATAGCA ATTCCTCATC TTCTTCAGGC GCCACTGCCG
265201 CCGCTA^ΔCCGT TGCAGCGGCA GGAGGGATAT CTTCATCTGC TTTATTTGGT ACCTACATAG
265261 GGTCCCTGGT GCAGTCAGAA TTTTTTTCAG AAGATATCGA TTTACCAGAA AAACAAAAGA
265321 AAAAGGCTGA TAAGGAAAAG GCATCAAAA CCGATAACAA TAACAACAAC AACAAGCGTC
265381 AACGCCGCCA GACAAGGAAG CAGAGCCCGC CGCGCAGAAA CAGGACTTTA AGAAGGAAGA
265441 GGAAATTATC CAAAAGAAAA ATACACGTCA AGAGAAAAGAA GACTCTAATT AATCGGCGCA
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265741 TTCTGGAGGA GTAGGAGGAT TATGGGATAA TGTTTCTGAT TCAGAGTCAG GGACGTTTCC
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265861 TTATGCGACA TTAGTAAGGA ACGGAATGTC CACAAATCAA AGGCCATATG AAACCTACAA
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265981 AAACGGTGAT GAAAATAAAG ACCACTTTGA AAGGGATGAA AGTTTGTGT TGATCGAATC
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266881 GAAACATATA AATTTTGGCT CAAGGCACCT TCAAGGCTGT GAAAATATTA CATGCAGATA
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267001 GGCATATGGA TAGTACAAAT TGTCTTGAAT TCCTCATCTT CTTTGTCTCT TGTACCATCC
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267241 CCGTTAATGA CGTAGATAAT TGTTGCATTC AAAGCACTGA TGTGCTTTTC ATGATATTCG
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267481	CTCCTCCACT	CCCTCCTCCT	CCTCCTCCTC	CCCCAGTCTT	CTGCCTTTTA	TTATCGCTTC
267541	CACCTAAAGA	TCTTCTTCCA	CCATTATTCTG	AAAATACAAA	AAAACCTACT	GCAACAAGAG
267601	CAGCTATTAT	CAGAAAAATC	ACCAGGATCA	AAACAGGGGC	ATTCGTATTA	GACATTCTTG
267661	CTACATGGTA	TTGGAAAATT	TTCCACCCTT	TAATACATAA	AAATTTGGTT	ACAAATAGTT
267721	AAAAATATGT	AACCATGCAG	TACAATAAAA	GGTGATCAAC	TGGTTTTTCA	TTTCTATATC
267781	GTAATGAAAA	TTTTGCATTA	CGCGTATTCT	TTGTAACAT	ATCGGAATAT	ACTTCATCCC
267841	ATACAGCAGA	TGAACCTCTT	TTTTCAGGCT	TAATTGCGAT	ATCCTTTTCA	GATTCCATTT
267901	CGTGGAAGAT	CTTTACAAAG	CAAGATTTAT	CCGTTTGATT	ATTGAACAAA	AAATCGAGCC
267961	GTTTTTTCCC	ATTATCTACT	TCAAAATTCT	CAATTGTTAG	AGAAAAATCC	CTCTTCCAGA
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268201	CTATATCAAT	TTCAACGCTA	GCTGGCGTTT	TTAGTACGTC	CCATGCAAAC	GCATTGAGGC
268261	TCTTGTTCCG	TACAAAAAAA	GTTAATGCCG	ATTCGGATC	AGGGAAAACA	TCCGCAGCCA
268321	CCTCAGTTAC	CCAGGCACTA	ATGTTGTCTT	CAGACATTGG	TAAAGTTGCT	GCTGCTTTTT
268381	CATTTATTAG	TGCTCTAATT	TTCCCTCTGT	TGCCCTGCAT	TTTATTATTG	AATACAGTCT
268441	CTCCGTAGGG	TTTAATATGT	CCTCCATACA	AATCTACCCC	AGCCATGGAA	GCAGTTGCAG
268501	TATCTGACGA	CCTCGTGTCC	AAAACATTGT	TCACCCTAGA	GGAAATTTCC	CCATCTTTAA
268561	ATAGTTCTGC	AAGTCTCGCC	TCCATTATTA	TTATTTTAA	TGTGTACAAT	AAAAACAATT
268621	AATTGAAAC	AAAAGGTAAT	AACAAAATAA	AATACATAAG	AAAGATTCAA	AAAGTTTTAT
268681	TCATTATCCT	TATCACACAC	ATATTTTTTG	ACGGACAAGT	ACATTAACAT	TATCAACATT
268741	CAACAGACCA	CTACCATCAT	TCATTACAAC	AACAGAAAAT	GGGGAAGTTT	TGTTGCACAA
268801	GAACCTCCAT	ACATCATTCT	TCTTTACATG	AATCAAGAAA	GTATTCCAAT	CATCCCATTG
268861	CTCATCGAGC	CTGTACCCCA	ACCATGGGTT	TACAAATAGA	CTATTAAATT	TATCCCATGA
268921	ACAGTATTCC	TGGAGAGAAA	TGAAGGGGTC	TTTCCCGTCC	AGGTCATTTG	GTCCAACATT
268981	TTCCACTACC	TTTACTTCCC	CGAGTCCAAT	TAGATTGACT	GTCGTCTTTT	CTTTTGTCTC
269041	GATCGCACAC	TCGCCAATGG	CAGCCAACAA	GGAATCGGGA	AGATCACTCC	TCATTTTCTT
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269161	CAGTTTATTT	CCTTCGGCAA	TTGCAGTGTT	CTTGAGTTTC	AAGAAATAGT	CGATAATGTA
269221	AAACTCTTCA	CCCTCTCCCA	GTTCTTCATA	CATCACATCA	CCAGATGTCC	TGATGGCTTC
269281	TTCCACCATA	GCCAAAGAAG	GTGCTCCACA	TTCAATCAAA	TCCATCAGCA	GTTTCTTCCC
269341	TCCTCTCCCC	ATTGCGACGA	GTTTGTTGGC	GTACCTGCAC	CAGGGACATT	TTCTGTTCTG
269401	CGGCTTGTC	GGACCAAGAG	TAGACATCAT	GTACTTGGAT	TTGCAGCAAT	CACATTCTAC
269461	ACATACAGCA	ACTGGAATAT	CAATATTGCC	CTCATTCAAT	AGCTTGTTAG	GAAGACAAGT
269521	CTTCCCATA	AAAATCCCCA	CAGCCTTCGC	TGCAGCTGAA	ACAGCAATTT	CATTGTCTTT
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269641	ATCAATTTTC	TTGGCATTCA	AAAGATTGAG	GGTTGTGGGT	GATGCAGTTT	TGGCAGGAGG
269701	ATCTCTGGT	AATTTATTGT	CCCAGTGATA	GACCATTGGT	TTGCCCATCC	TGTAGTTTCC
269761	CTTGTCATCT	AAGCACAATT	TTTCATCATT	ATCATATTCC	ATCTTTAGAG	ATTTTACACC
269821	ACATCTTTTG	CATATATATT	TCAAGTCCTT	CTCTGATAGG	TCAAGTCGAC	GTACAGGGAA
269881	CGTCTCATAT	TTCTCCCCAA	TCTTTGAGTC	GCCAGCCTTT	GTCAAGATTC	TCAGAGCCAA
269941	AAAGTGTTCT	AGTTTATTGG	TAAAGTTCTT	GTCAACTCCT	ATCTTATTGG	CCCATGTAAT
270001	TAAGCACCTC	AAAAATACTA	CACCGGAAAG	ATTATTCTCG	ATCTCTCCAT	CGGCAGTTCC
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270121	GTAATACTTT	GTGAATGCCA	TTTTTGCAAT	AGAGAGGATC	ATGTTTGAAG	TGTTGGAGGG
270181	TACTTCACAG	GAGGCAGCCC	AAGAGGCGGC	TGCACACACA	GATTTGATTG	CTGCATAACC
270241	TCCTTCTGGC	AGACTCAGAC	GTACATCATA	CAAAGTTCCC	AATTTTGGAA	TCACAGTCTC
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270481	ACATGATACC	AATTTCTTGA	TGAAATCAAA	GCACTGTCCA	AACTCGAACC	TCTTGTTATC
270541	GTCCAGTGAT	AATAATCCTC	CTCCTGTATA	TGAATTGGAG	AAACTAAATG	ACTGGTGGAA
270601	GATTTTGCCA	GCTTCTTCCA	AGGCATCATT	GGGCACATAG	AACCACATAA	ACATGGAGGA
270661	TTGTTTCAGG	GTGAGATCTG	TATTGTTAAT	CACCTGGAGT	GCATCATAGC	TAGCAGATTT
270721	CATGTGCTTT	CCTTCTTTTA	GGAAGGCATA	TTCTGCCTTG	TTTCCGCATT	CAGTTCCAG
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270901	GATCATCATT	TTGAAGAGTT	TTTCAGCAAA	CATCTTGGCC	CAGTGTACGC	GAGTCACTTT
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271981 GCCGCCTCCG CACACTTCGG TCTTGCGCAT ATGCTTCACA AAATCTCCCC CTTCCCACTC
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272221 CGAGATACTT AGACCAGTAG GTTTTGCAGT TGGAGTATCT GTATCAGCAG CAGCAGCTTT
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274861	GCCTTCCACG	TGTTTACCCTA	TACAGATGAA	GCTGTCAAGA	GTGGATTCTT	GAACGAGGAG
274921	GATCTAGATA	TGGATACTGC	AACCAAGTGG	ATGGCTGAAA	TTATTAGAGA	GAAAGAGGGC
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275041	TGTTTCTCTA	ACACTAAGAG	AAACTTGTAT	AACTTTGGAA	CAAACATAAA	CAATGTTGTA
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275221	TCCCCCCTCT	CTAGTGAGAG	ATCCCAATCA	CTTTCTACTG	TCACTGTTGC	TGCTGTTTGT
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275341	TTATATGCTT	TAATTATCCT	CAATACATTT	AAAATGGTGC	GCTCTTCTCG	GTTAAACTTC
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275581	CATGGATAAT	ATTGCACATT	GAATTGATCA	TATAAAGTAT	TGAAGATGAT	AGGGTAAGAT
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276121	CATTGGTCAT	GACAACTACC	CACTATAGGA	TTTTCTATGC	GGAGGCCTTT	GTAGGATAAT
276181	CGATGTGCTA	TATCGTGTA	AGGTACCATT	GATTGCGCCC	CTAAAATACT	ACCCATACTT
276241	AACAGTTTCT	TTTCGACTTT	GTTGTTGGTT	ATCCCACAAC	CCATCAATAA	ATCAGCAGTT
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276361	TATAGAGGGG	AGAAAGTGAA	AGACTTGTCA	TGGGGTAAAG	CTTCTCTTTT	CACTATATTG
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276481	TTCTTGTAT	AGAAATTCCT	CATTTGTGAA	TGATGTTGAA	GAAATAATGA	CGTTTTTTTCC
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277021	CAACTTCCAA	CAAGAATGGG	CTCTGCTAAC	TTGAACGACC	GAACCTACT	CGTGGAGGAA
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277201	CTGCTGGTGA	CTGTCATGAC	TTTGTGATT	TGGGTACTGG	GAACCTGCAC	AGTTAATTGT
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277501	GCAATGGGTA	TCAATACAGA	TAATGGAGGA	TTTGTTTGGG	AGAATGGTGT	TTTTTCTCAA
277561	TATGGCAAAA	AATAAAATAT	GGTATATTAA	ATATGTGTTG	TTTTATTGTT	TCTTTAAAAA
277621	ATAAAAAAAA	GAGTAACTCC	GTCTACATAG	TTTTTTTTTAA	ATTGGAAGAT	ATAAATAGAA
277681	TGAGTAAAG	GTACTGTGCC	ATTACATGTC	GAGATCTTGT	ATTAGCAACA	TTAGAGAAAT
277741	GGGGGACAAT	AAAATTATG	AAACAAGACT	GATTCAAAGA	ATTAATGATT	TGGAATCAGA
277801	AATTGAAAAT	AAAACCTGAAT	TATGTGAAAA	AATCAATGAG	CAGATGAAAA	ATACACAAC
277861	AAAATATGAT	AAATGTTTCG	TAGAGGAGGA	GACGGAAAAA	TTCCGCAAGA	TGGAGGAAAG
277921	AGTTAAATAC	CTCAAAGAGC	AGGGAATCCC	TCTAGACCCA	GAAGAAAGAC	GTACAATGTT
277981	GGCTGAAATT	GACAAGAGTA	ACAAAGAGTT	AGATGCCCTT	CTTGAGGAAA	ATGAACGTAT
278041	AATAAAGCTC	ATTGATGAAG	AGTTGGAAAG	TATGAAATAA	AATAAAAGAG	TAGGAGACTT
278101	TTCAGTTGGT	GTTATAAATA	TATCCCTGCA	AGGAGATACG	GTCTCAAAAA	ATCCATGACT
278161	TGTCAGTAGC	CACGGAAAAAC	ACACTTGAAA	AATACACCAG	AATAGATGAG	CAGACAGGAG
278221	AGATGCAAAA	AAAATATGAT	AAATTATTTG	AAGATGATAA	AAGGTTCCGA	GAAATAGAGG
278281	AACGAATCCT	TCAACAAAAA	GAGAAGGGAA	ACCCTCTAGA	CCCAGAAGAA	AGACTTGTAT

278341 TGTCGGCTGA TATTGATAGG AGTATGAAAG AGATTGATGA TTGTCTCGAG GAAATAAACC
278401 ATATAGAATT ATCCATTGAT ACATTATTGG ATGAATGTGA AAACCTTGCAT TATGGTCTTC
278461 AAACAACATA ATAACCTCTT ATCGGGCAAG TGAAGTATT TGTACGTATG CAATTAGGTC
278521 CATATTGGTT TGCAATAAAA TAATCCACAC AAAACGTGTT GTTTTCTAT ATCCTATAAA
278581 TTCTTGGAAC GGAAGTTATG ACTCACATAG AGTGTATAAA AGGAATTGGA TGTTCCTATG
278641 TCCGCATCAC TTCTAACTGA GACATCGTTG GAAGAGGAAC AGAGAAGAGA GGTTAACAAC
278701 AACACCAGTA AGGAAAATGA TACAATGGAA AAAAAGACTG AGACGGCTGC AACAAACAGAA
278761 AAAGACCCAG AACCGTCTGT CAGTAAAAGG TCCAGAAATA AAGAACCCAA AACAACTTCT
278821 ACTGTTTACA CTTCTGTAAA GTGTTACCTT TCTTCCATAA TCAAGAGTGA AAGTAGTAGA
278881 AGTAATGTCA CCTCAACCAA AGAAAGGTTT GAGGAGAGGT GTAAATCCGT AAGCAAGATG
278941 ATGGTCAAAG GTTCACTGTT TTTGAGGTTA GTAGTGGACG AGTGTCTGAG ACGTTACAAC
279001 CATCTAGAAG ACGAAATCGA TAAATGGCCA GATATGACGA AGGATAACTT TTACGTCCAA
279061 TTGTTGAGGA AGGGTTTAGA CAAGAAGAAA TTGAAAGAAG GATCTACACA TCCTGTTGTA
279121 GAAGATGTTT GGAATTCCCC CATCGTCCAA GAAACATTCC TATCCAGCA AGGAGAAGGA
279181 AATAATCCCA TAAAGAGACA TCTCATGGAT TTCAATACCA TCACCTACGC CGCCAAACAA
279241 CTAATAACTT GCTTCGAAAC AAACCTACGC ACCCATTTCC GGACACGACA ACAGAGGGCC
279301 ATATCTGGAT GGTTAGCTGA AAACGGGTTT GATAAAAAGT ATACGAACT CGTACAACAC
279361 TGGATAATTG GATGTACCTA CAAGAGTGA TGGGTGGACA GTGGTGAATT GGAAGGGTA
279421 AAAGAAGGAA CGAAAAATTT CGTGAATCTT CATAGGAAAC ATTTATGTGT TATTAGTGAT
279481 AAGAAGAATG GTACAATTTT CTATTCACCT GAAGAGAAAT ATCCGATACC CTCAATACTA
279541 AATTATTACA AGTTTCTACA AACAGAGTAT CCACAAAACA AGAAAATACA GAAAATGATA
279601 GTTGTCCCAA AACACAACT AAAGATACAC TATTGTACGT TTGACCAAAC GACCATTCAA
279661 GGAATTTGTA AAGATTTGGG AGTGTGGAAG GATATGGAAG AACGACACAA ACAATCAGAA
279721 GATATACTTT ACAAGCAAGG ATGGTACCTA TTATTCGACG TTAATAAGAT TAAGAAATTG
279781 CGTCCAACT GGAACCTTCA CTCTATCCAG ACGGACGGCG AAGGCGTCTC TGTACTATTT
279841 TCCAGAAAG TGGAAGAAGT AGAGACTGTT TCCAAGAAAA GTAAGAAAA TAAAAACCT
279901 AGAGGAGATG AGGATAGGAG AAATTACCCG CCCACTAATG CCAAGTACGT AGTGGGTGTA
279961 GATCCGGGAA GAACTAATGT CGTTTCCTGT TCCGTTATTTG ATACCCGTC AAAAAAGGTA
280021 GTGAGAAAC ACAGAAATGAC TGCGAAACAA TACTATCAAG AATCTTGGAT GACAGATAGA
280081 AGAAAGGCAA ACGAAACGTA CAAGAAGAAC AATAAAGAGT ACAAAGAGG GTTAGAGGAA
280141 ATAAGTAGGT ACGATAATGG CGAAGAAATT ATAAATGATG GTAACGGTGA TACTTCTACA
280201 CCCACTAAAA AATTCGAAGC TTACTTGAAG GTAGTGAACG AGCACTACAG GTTACTGTGG
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280321 AAGTGCATAT CTAACCTTAT AGATGAATTA ATCCCTAAAA GGGATAAAAT TGAAGATTAC
280381 CACATTGCTT TTGGGGATGC GAAATTTGCC TGCACGGGAA GAGGTGAGCA ATACGCATCA
280441 CCTGCCAGGA TTTTCGCCAA GAAGATAAAG GAAAGAGTCG GAGGTGATAA GAGGTTTACT
280501 TTCGTGGACG AGAAATATAC GTCAAAAAGTA TGCCATCGCT GCAATCAACC TTAAATATG
280561 CTGGAGAAGG ATTGTTTTTC ACCGAATAAG AAAAGAAAAAC CGCCGACAAAT AGTAACAACC
280621 ACAACAACAA CAACAACAGA AGAAGACGAA GAAAATGGAA AATGGAAGAA GGTACACCT
280681 CTCAGAGAAA ATAGAGATAC CAGAAGATGC TCGTCCGAAA AGACGCAATT CGGTTACAGT
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280801 TCCTCTTCCT TTTGTACTCC TACTTCCATT ACATGTGTCT TGGGAGGAAA ATTCGTGAC
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280921 TTAATGGAAA AGAAAGACAA GATGCCGTTG AAGTATCACT TTATTCGAGT TGCCTGAGAA
280981 TAGGATGTAA AAAACTCGTG TCACATGTA AATAGTGGCG TAGCCCTGAA GGATGAGAAG
281041 TATGCTATTT TCGACCTTAC GGTCATTGTG GTATATCAAC TCTTGCCCGA TAAAGGGTTA
281101 TTCAACAACA TAAAAATGGT ACAATATTCT AGGTGTGTTT TACTATTCTT TGCTTGAAT
281161 CCCAAAAGG TGACCTTCA AGTTCACCTG ATACACTAAC TTCAACAAAT GGGGATATTT
281221 CTGCCTTCAC CTTTTCGACA ACAGACTCTA TGAATTTATT ACACATCAA TTCAATTTGT
281281 AGGCTGTTAT AGGTCCAATC TTCATATCGT TGTAAGATCT CGAACCCTCG ACACGTGATT
281341 TTTACGGGC AAGGAAAGCA ATATCAGTCA GTATAGGGAA TTCAAAGTG ACTTTGTTGA
281401 ATATCTGCAA ATCACTGAAC GTGCGGCTG TAATGGTCAT TTCGTTGTGC CTGAGAAGTG
281461 ATCTCGGACG GAGGCGGTTA GTCATGTTTT CCAGTTGAGG CAAAAGATAT ACCATTTCTT
281521 TATAAATTAG GCGAGAGGCT ATTTCTTTCC TCGCTCCGT TGCGGCTTTT TCTTCTCGA
281581 TTTTATATGTC TCGGACCATG GCTTCGGCAA GTCTTTCTCT CTCCATTCTG GCGCACTCGA
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281701 CATCGACTCT GGGGAGCTTA CTCGGCGGGT GTGTTTCTAC TGATTCTTCT TCTTCTCTG
281761 TTCCTTCAGT GAGGTCTCTC GCCTTTCTCT TACTGGTCGT GGGAGAACT TCTTTTGCTT
281821 TTGCTGCTGC TGCAGCTTTT GCTTCCATAG ACCTGGTGA AACCATTTTG AGGTTCTTGG
281881 ATGATGTTGT ATATGAACTT CTTAGTGTTT AAAGAGACTG AACAAGTGTG TGCTCAGGTG
281941 GGATCCTGCA GGCCTTATAT ACAATTTCAA GATGGGGAAG TGGGGGGAGA AAATAAGGTT

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282001	GCCAACTAGT	ACCTTTGTCA	CCTACACCAG	AAATCCACAC	ATGCAGAAGG	TTTGATGCTA
282061	GTTTTTGGAT	ACATTTTCTG	GGTCCAGTTG	TGTGGGGGGG	GGGTGGTATA	AATATAGCCC
282121	ACAGGAGGAG	AGCCTGTGTC	ATTCTGTGTG	TATGTCTTGT	ACTGAACATT	ACTGAAATGG
282181	GGAATAGTGA	ATCTCGTTCT	AGTGGTATTG	AAATTGTACA	TAAAAATGGT	GCACCAAAAA
282241	GGTCTCATAA	AACTCTTTAC	TTGTCAAATA	GAAGTGAAG	ACATGCCAG	ATACAAAAGC
282301	AGATCGAAGA	GTTACATCAC	AAAACAAATA	AGCAATTTGA	ACAGGCTCAA	AAGGTCCTCG
282361	ACAAAAACGA	AGAGCGAAAG	AAGCATCAGC	AACAGCAACA	AATAATAATT	CCTCTAGACC
282421	CAGAAAGAAAG	ACGTGCAATA	TTGGCTGAAA	TCGATAAACA	CATGAAAAGAG	ATTGATGGTT
282481	TCATCGAGGA	AAGTGAACGT	CTAGGTTTAC	TTGTAGATGC	AGAAATCAAT	AACTTGGAAG
282541	AAAAGGAGGT	TGAAGAGGAA	CATCTTTTGA	AACAAAAAGA	AGACTAAACA	ATAAAACATC
282601	TAAAAATACA	TTATATGATT	TTTTGGATTA	ATAAAAAACA	GTGGAATAAT	TTTTAGGTAT
282661	ATTTTATTTG	TTTTTTACCA	ACAAGGATCA	TCAATCAAAC	TATCTATTGT	AACTTCAATA
282721	GAAGGGGTTA	TATCTTCCTT	CACCTTCTGT	ACTACAGCCT	GTACAAAATT	ATCACACTTG
282781	TGGAGCAACT	GGTTAACTGT	AAGAGATCCA	ATCTCCATGT	CGCCAAACTC	TTTTGGTGGG
282841	GGTGTATTAC	CCCACCTAGA	AACGGCTTCA	CGGTTGATCA	GGAACCCAAT	ATCAGATAGT
282901	ACTCCAAAAA	TAAAATTGAC	AGTATTTTGT	ACCTCAAATT	CATGCTCATA	GTGTGAAACT
282961	GCCATGTCAT	GTTCCCTTAG	GGGGTTTTTC	AGTTTGATGT	TTTTGGTAGT	ATTGTCCAGT
283021	TGCACCAAAA	GATTTTCCAT	TTTCTCTGCA	GTGTCGTCGT	CCACTCTGTC	TTCATATTCT
283081	TCCTCATCCT	CCTCTTCCTC	ATATTCTCTC	TCTTCACCAT	CGTCTTCTTC	TTCTTTACAT
283141	GGGAGGGAGA	GGTGATGTGT	TTCTTTGTGT	TCTTCTCCTT	TCTTCTCCTT	AATTCTGGGG
283201	CGCTTGTTAC	TTGACGAGTC	CTCTACCAGT	TCTTCTTGTT	CCATTTTTAC	TTCCACTTTC
283261	ACCTTTACTT	CTTCTGGCTC	CCTCTTCCTC	TTGGTGGGGA	GAAGAGTAGA	GGTGGCTGCT
283321	ACTGCAGATG	AAGATGTTGT	TGATGTTCTA	GAAGAGACCA	TTTTGGGGGT	TATTTTGGGA
283381	ACTCGTGGGT	AGAACAAGTA	GTAGTAGTAT	TAGACTCTTC	ATTGTTTGAC	TTCTTTGTGA
283441	CTAGTTTGCG	AAATACGGGC	AATGTTTTAT	TATTTATAGA	TAATGTCACA	TATGGCAACT
283501	ACGCAGATAA	TGTTAGATTT	GATGAAAATC	CTGGATCTAT	AAAAAGAGAA	TCAAAACACT
283561	TAAACGAATT	CGATTTAAAA	ATTTGCGAGG	TTAATATAGC	AAATAATAGT	AGATTACCAC
283621	AAAAATTTGT	TAATGCTACA	AATAGATTAA	TATACATAAA	ACCTCCATCT	TTACACGATG
283681	TTTGTAAGT	ACATGGTTAT	ATAAACCAC	GGAAATTATT	ATTAGATGCA	AAAGGGACCC
283741	AGGAAATCGT	TTATATGTTC	CGCTCATTTT	TTGGACTACT	TGTATATCAC	GGATGGGATG
283801	TCGATGGTTT	AATGAATACT	TTCGGTTTAC	TAGAATTTGT	GACACAAAT	TTTATTACAC
283861	AGTTAGAAAT	GTAATTAGAT	AAAGACCCAG	GTGAAATATT	GTATCATGCA	GAATATCTTA
283921	TGAATACTTT	AAGGAATCTC	AGAGAAATTG	AAAAAGAGCC	AATTAGGGAT	TTAGGTTTGA
283981	TTAAGTAGAC	GGCTAATTAT	AGAGGTTTCA	GTTAATAAAG	GACTGTTTTG	TTTTTTTTTA
284041	TTTTTTGTCC	CAAACCCATT	TAAAATAAAT	GCATGGTTAG	CAAACTTTTA	TGTCTTTACA
284101	AGCCTTGTTT	AAAAGGACTA	CATATTCATT	CCCTTCATTT	TCTTCTCTTT	TCCTTTTCTC
284161	TCCTTTACTG	CTGGTGCTGC	CGTTTCCATC	TCCATCTTCT	GAAGTTTCTC	CTCCACTTCC
284221	TCCATCTCCA	CGTTCTTCAT	TATACATGGA	AATTGCCCTT	GACGTATTGA	AAATCATGCG
284281	TCGTTCTCGC	CGCAAACGCT	TCCGTTTCGTC	TTTCGGCAAG	TTTTCTTCCC	TTTTGAGTAA
284341	CTCTTTGTAT	TCCTTAGATG	TCGGATCAAT	CACATTGATT	TCGGCACCAT	TTTGATATAC
284401	TTTTCCATTA	TCCATGAAAA	TTTTGATGTC	TGTTCCCTGT	ACCTCTCTGA	CCATTTCAT
284461	TAGTTCCCTT	TCTCCTGGAG	GGACTGCAAA	GGTTATACTA	TTGCCACTGG	TGCGGGAGAA
284521	AAGTCTCGTC	TTGAAGTGGT	TTTCGTACACT	GTCCCTAATA	CATATAGGGG	CATCCGATCC
284581	AGTTATGGAC	ATGATCAAAC	GGGGCCTACG	TTCTCCCACA	TCTCTCTTTT	TATATTGAGG
284641	TGAAGAGACA	TACCTGATTC	CTTCTTCTGT	TGCAGAATAA	AAGGAACCAT	TTCCGTTGGT
284701	TCTGCATAGC	AAGGAGAAAT	CTCGGTCAGA	AAAAGCAAAC	ACTAAGCAGG	CTCCACCATC
284761	ATAGCGGGAT	GTCGCAATCG	ATGATTTTTT	GTGCACATCC	CTCAAAGAAA	TCCTTTGTTC
284821	TTCAGAGACG	GCACAACGTT	TCCTCAATTC	CTTCAGTTCT	TCTTCCTTCA	TATTTACTTC
284881	ATTCTCTGCA	AACTTTATTT	CTCTTCTGAA	ATTATCCATC	TGTAAATTAT	CCCTTTCATT
284941	TGCGTATATG	ACGGTTGCAT	TGAAAAGAGA	TGACATATAA	TTTCCAATAC	TTTTAGCTGA
285001	TGGGTGTGTA	CTGTTGTAGA	AAATCAAACC	TAGTTTATCC	ATTGGAACAA	TTAGGCACAT
285061	GTTGGAGTAA	CTGCCTGTGA	TTGGGTTTGC	AATGTAGGCC	CCTTTGTATG	TTAACCTATC
285121	ACATATATCA	TACACTGATA	TGCGGGAAGA	AAAGCCACAT	TGTTCCACCA	ATAATTGTTT
285181	CATGTTACGA	AGTGTTCTAG	GGCAATGGCT	CGGCGTGTAG	CCACACCCTA	CTAAAAAGTC
285241	AGTGGTTATT	ATCATATAGT	CACATTTTTT	CACAGCTGCA	TTAGAAAGTC	TTTCGTGTAA
285301	AAGCCTGTAG	AGAGGAGAAA	ATTTAAAGTT	TTTGTCATA	AGAAGGGCCT	TTTCTTTAAC
285361	GATTTTGTG	ATATTTTGCA	TATCAATGGG	GAGTGATTG	TTCCACTTTT	CCCCATAATC
285421	CTCACACCCA	TCATCTTGCA	ATAAACTCCC	TAACCTGGGG	AGATTGTGAG	TATACTTTAA
285481	TCCGACTTGA	AGAGTATTGT	CGCCTGTCAA	TTGTCTCAGT	CTATGCACTC	CGTTTTTTAT
285541	GTGAAGTACT	TCCTTATCTT	TTAGACGGAC	TATATATAGT	CCGTCCCTTA	ATTCACTTTT
285601	TGTAACCCTA	TCAACAGATT	TGAATGATAA	TAGAATATGT	TCGTATTTGT	CAGGGTTTTT

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285661	ACCAGAAATA	GTGAATCCAT	TTTTTACCTT	TAAAGTCTTG	AATTCTTCCA	TTTTGATATA
285721	CTTAAATGTG	TCATACTCGG	GTGTCACAGA	TAATAAACCT	ACAGACCTTG	CCATTGAACT
285781	GTGACACAGA	GTGGGCCGAT	ACGCAAATTG	CCACGTTGCT	TGAATTACTT	AATCTGTAGA
285841	TGAAATCGGC	AAAAAATTAC	GTCTTTAGAA	TGTCTCGGAA	TGTCATATTT	CTTTGTGCGT
285901	AGTACACAAA	ATGTGGCACT	TTTCAAGCCA	CCACCTCTAC	ATCCCAGTGA	GGCGGTGGAG
285961	GTGGACGTCA	TATTTAACTG	GAATATGTGT	AATAATATAG	TCCAATTCTT	AAAAAATCAA
286021	TAGACCAATA	AAACAACAAA	AAACATTTTG	TAATTTATTT	ATTCAACTAA	AATCTCATCA
286081	AATAATCTTC	TCAGCAATAA	ACTTACATTT	CATATCACAG	TGTACAATAC	TATTCGTGCA
286141	TTTACCAACA	CGGTACACGT	AATCTTACT	CGTCGAGAAA	CATGAACTAC	AAATATTCCC
286201	TTTGTACACA	TTTCTGGGGA	TAACCTCAAT	CTTTACAAAC	AACGCTCTCT	CCTCCTTGAG
286261	AACGTCAATA	AACCAGTTAT	GTGCATCATT	CAATTCTTGA	ATAATTGGTT	CCATTTTCTT
286321	GACATCTTCT	TCCCTGTAAA	CCATCACATG	GAAAACTGGC	TTGTATTTGA	CCCCTCGGC
286381	GACACATGCT	TTGAATTCTT	CTCCATACAT	CTCCAAATAC	TCCCTCAATC	CAATTTTTGA
286441	TTCTGGA AAC	TGTTCTGTGT	CGTGCCTCCA	CATGCCTGTG	AAAAAGTTCA	ATGATGATCC
286501	AAACATTCCA	TCCACGAGCC	TGGGACGTTT	CTGGTAATCG	GATGCACGCA	AATGCTCTTG
286561	AATGGTCCAT	GGGAAGATGG	GTAAATAGTC	CCTATAATTG	GTGTACATGA	AGTTGAGGAA
286621	AGACTGTTTG	CCCTTTCGGG	CAGTTCTCAT	GTTATCCACC	CATGAAGTTT	TCCCAGTTAG
286681	GGGAGATCCT	TCGACGAATA	CAATCATGTT	GAAGGGTAAG	ACTTGTCTAA	CTCTCTCGAG
286741	CGAGCTCTCT	CTCTTTTATA	GAGGCAAAAA	TGTAGTTGCC	AGCCACCACC	TTAAAATTCTG
286801	TGCATTAAATA	ATATATAATT	TTTATATTTT	GTATCATTCA	ACCGTAGTCC	ATCTAAGAGT
286861	CAACATGTCC	TCCTCCTCGT	CGTCGTCGTT	CTCGTTCCGC	ATCTCCACCT	ACGACACCTT
286921	TCTCAAGGCT	CTGGCTCACC	CAGATCTGGT	GGACAAGATT	ACCCAGAAAT	TGTACGAGAC
286981	AGGAAGAAAC	CAGAAGTGCC	CCATCCAGTT	TCTGGCCGAC	ATCTCGCACC	TGATCCAAGG
287041	AGAAAGAAAT	GGAGGAAATC	TGTTCCCTTT	GCACCCGTTT	AAGAACCAAC	CACATCTGGA
287101	ACCAAGAATA	GTGGGAAGTC	TTCACGGGAG	AACATTGGAC	AATGACATTG	AAGAATCATA
287161	CTGTTATTTT	GTCAAGGATC	TGTATAATGG	AGTATTTTCC	TATGTGAACG	GCGTCAAGGA
287221	GTTACAGGGC	GTTCTGGACA	AGAAAATATC	TGGATCTGGA	TCTGGAGAAT	CCTCCTCTTC
287281	TAGAGCTCCC	CTGATCCCAA	TAAC TGATGT	GGATTTGCTG	TACATTTTTCG	GTACTTTGGT
287341	AGTTCTTCCC	CCCAGATCTA	AAGCGTACCG	AGTCATCACT	GAAGCTGTTT	TAGCACTCCC
287401	CTTCAATGAA	TTCAGTAACA	ATCGGCCTCC	TACAAATATC	AAAGGAGCAT	ACGTGTCTAG
287461	AGATTTTCAGG	ATGTTTAAATC	TGTTGGCCGG	TTTAGATCAT	ATAGAAGGAG	AAGTTGGGGG
287521	AGAAAGTGAA	TGGGAATCCA	TACACGCATC	TGTCGTCAAG	CGAATGGTCA	CATTATGCG
287581	CAACAAAGCT	GAGAAGAAAC	CTCCATCAAC	ATCTAGAATT	TTTAGAGTGT	ATGTGGCTGA
287641	ACCAGTTAAT	GATGCAGTGA	CAAAGATCCC	TATACGTGTA	CTCAGTAAAT	TATTCGGTTC
287701	AAGACTCGCC	GGTATTCTCC	AGAAAGTGTA	CTCTTATTCA	ATGCTAAATC	TTCCATATCT
287761	CCTGTCTTCA	AATTCTATAG	ACATCAAGCA	AGGAGTAAAA	GGAATTACAT	TATCTATACC
287821	ATCTGCAAGA	AAATTGGGAT	TCTATTTACT	CCAAAAGGAT	ACAACAATTAC	AATCTTCCCT
287881	ATCAACAAGAT	GTTGCCGACT	GCATAGTTTC	AATCAACGCT	GGTATTATTG	GTGATGATTT
287941	CTCTGAAAAA	ATACGACAGT	GCATTGAGGA	GAAAAACAAG	CCAGAAAACCT	GTTGTATGTG
288001	CTTTTGTGAA	ATTGACAAGA	CGCCCGATTT	TTCTTATAGT	GAACATGTGG	CAAGGCACAA
288061	TTTCTTCCCC	GTCCACGCAT	TCTCCTCATC	ACATGATGAC	AAGTGTGTGT	GAGCAAAGAT
288121	TTGTTCCGAA	TGTATATTCC	CGTACATCAT	TTCCCTGTAT	GAGAAAATGA	CTGGTGTGGC
288181	AGGTGTAAAA	GTTGTAGATT	TGTTCCAGTG	CCCTGGTTGT	AAAAGTGGCA	TGCTCAATCT
288241	AAAGGGAAGA	TGTTACGAGT	TTTCAAATTT	GTGTAAGAGA	ATGATACTAC	CATACACATC
288301	GACTCATTGT	TCTTCTCTCT	TTGATGCTAC	CATAAATCGC	GCAGAGGCTT	GTTTTTACTC
288361	CCTAGAGTTT	CTCCAGTATG	ATTTTGAAAC	TGCGAGGAGA	ATTGCGCATG	GAGCTAAAGA
288421	CATTCCCCAT	GTTTACAATA	AGGTAGTAAA	GAATGTAAAA	GATTTGGATA	GACTGTGTGC
288481	CTTGTACTGT	TACAAATGCG	TATCTCCTGT	CGTATGTGAT	GAGCCGAATG	AAAGTACGGA
288541	CTATGAAATG	GTGGATGTAA	CTCCCCCTCT	AATTAATCTT	ACCGAGATTG	TTGATTCGGA
288601	AGAGTATGAT	GATGGTCCCG	GAAATCATAT	GTGGCCAGCA	AAATTTACCT	GTAACTTTAT
288661	TGCGGGTTCC	AGTGGAGAAA	CACCCACCAT	TAGTACGTGC	AGAGATGCTG	TAACTTTTCT
288721	AGGAAGAGCA	CCGAGGAAGA	AAATGGCAGG	ATGGGATGAT	CAATCGGCAG	TGGGGCAAGC
288781	CATTATAGCG	CTAGCCAACT	GGAGAAAGAG	TGGGGAATTG	CCCAAAAATA	TGTTTGATTT
288841	ACTAGAAGGG	GTAAATGCCG	TACTTTATAG	AGGCGACAGT	TTCTTGTTAC	GTGCGATAAA
288901	CTACCCCTGT	GTTATTGGTA	GATCCATGAG	CCCTAGTCTG	GAACTCGTTA	AAAGAAAGGT
288961	GAATAAAATT	GCTTTAATAA	AGCCCTCTT	CCACGAGAAA	AGGGTGCCTC	CAGACGCATC
289021	TAAAAAGTTA	CTTGAATGGG	CAGAACTATT	AGTCAAAAGT	TATCTCATGG	AAGTTTACT
289081	TCAGACGCCA	GAATGTGTCA	TACACCGCGC	CCATTCATTT	GTAGGCAAAA	CTCTCCTCAT
289141	TACTGACGAA	TTGGTTCACA	TGCGTCCAGA	TGATGCCACA	AGAAACGCCT	ATATCCAGAA
289201	CCTAAATGCG	GCCAGACAGA	ATGCGGCTGC	TGCAGCCTCA	TTTTCTGGGT	CGCTCCCCAA
289261	ACCTGAATTT	GTCCCTGCA	AAGAAAGGAC	GATTGAATGG	ATGTATGAAA	AGGACAATGA

289321 TGATGTTAGA GTTGTAAATT GTCCTTCATG TAAAAAGGCT ATCCAGAAAT ATGGAGGTTG
289381 TGTGAATGTG TTTTGTGAAT GTGGAACAAA CATGTGCTGG ATATGTGAAG AGAAGGTTTC
289441 TCCTGCTGAT TCTAATCATT GTGTGGAGAA ACACAGGATT GTTTATAGTA ACTGTGTTAG
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289681 ATTCAACAAA CTTTAATTTT TTTGCATGCC TTGTTCAAAA GGGCAACATA ATCGCCTTCT
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289921 TCTTTAGAAG AGGGGTCAAT CACTTTTATT TCTACACCAT CTTGATATAC TTTTCCATTA
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290041 TCATTCCGAG GATCGATGAA TGATATTTCA TTACCTTTT CCGATGCAAT GAAATGGTTA
290101 TTAATGTTT TTCGTATACT ATCTCTGATG CATATAGGTG CATCTGAGCC AGTTATGGAC
290161 ATGACCAATC TGGGCCTACG TTCATCCACG TCCCTCTTTC TGAGTTCGTC CGAAGAGACG
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290281 AAGGAGAAAT CTCGGTCAGA AAAGGCCAAG ACCAGACAGG CACCGCCGTC ATATCTGGAT
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304261 CCTAGAGGGG TGAGAGGTGT TCCTGGCTAT CCTGGCGCAC AAGGGGAATT AGGTCCCCAA
304321 GGACCAACAG GTCCTCAAGG GCCAGCAGGT CCTCAAGGGC CGATGGGGCG TACAGGAGAT
304381 ACTGGTCCCA TGGGCCCTCC TGGAGCAGTG GGACCAAGAG GAGAGAAAGG AGGTAGAGGA
304441 AGAAAGGGAA AAAATGGCCC TAAAGGAGCG GACGGAAAAG ATGCCGTAAA TATCATACAA
304501 AAATATTCAA TCACCCATGC TCGTGCAGAG ATAATGTGGG AAGGAAATGA AATCGGAGAA
304561 GCATACATTG GAAGATCTTA TGGAAGTATG ACAATCCCTG TGATGATAGA AAATAGAATA
304621 GGGATGACAA ATGAGGACAA AAAAAACGAA TATTGTATAC AAGTAATGAC AATGCACTCA
304681 ATAACAATA GAGGAAGAAC ATCGGGTGTT TTTGTGGTAA GCAATAAGAC AGATTATATC
304741 CTTTTAGTTA CTTTACTGAT GCCAGAAAGT GTTTCCTGTA GAACAGATGT CAGTACAAAT
304801 GCGAGGTCAG AGAGGGTGAA TGCTGTTAGA GAAAGAGAAA GCAAATCGTA CAGATTTATT
304861 AGGCCGTCTG ACCAATCTAT AGGTACTCAT TCACGTTCAA AAATTGCCGT GGTAAATGTAT
304921 CCAGACGCAA GCATGAGTTA CTCAGTTGAT ACATTAGACG CTGATGTGGC GCGAAGAGAA
304981 ACAACGTCTG TGCTTTTATT AGCAGAAACC ATACACGGGG AAAAAGATAG AGGTTTCTAT
305041 GCTGATAGAG GAACTGTAGG GAGGTTGATG GTACCTCCCA CTGAAGAAGA GTTATTGGTA
305101 TTGCAAGC

WSBV cDNA 序列:

编号: C001

长度: 1642 bp

碱基对组成:

592 A 281 C 353 G 416 T

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1   CTTTAAACAA TTAAAGTAA AAAATGGTAT TTGTTTGTCT GGGGAAAATA CCGAAAATTA
61  TGAACGGGTA CTATTAACAT TCAAATCAGT CAAGAGTGTC AGGAGAAGTG AGCTAAAGGA
121 AGGACATTTT ATAGTTCGTC TTAGAGACAA GGAAGTACTC CACATCAAGA ACGGTAACGA
181 AAGATTGAGA CAATTAACAG GAGATCCTAC GCTTCAGATT GGAATAAAAT ACACATCCAG
241 TCTCCCAAAA CAAGGTAGTT TCTTAGAAGA TGAAGACCCT AATTATGGAA AAAAATGGAA
301 CGAATCACTA CCAAGCCCAT TCCAGGAAAT GAACAAAATT GTGGAAGAAA AGGCTCTAGT
361 TAATGACAAG AACTTTAAAT TTTACCCCT ATACAGAATC ATACATGAAC GTCTTTCAAA
421 TGC GGCCGTT AAGAAATGTG ATTATATGAT AATCACAACA GACTTCTTAG TAGGGTGTGG
481 GTTTTCTCCT AGAAATTGTA CCCGTACTCT TAAGAATATG GAACAAGTGT TAGTGCAACA
541 CGGTGGTACC TCTTCTCGTG TATCAGTGTA TGATATCTGT GATAGGTAA CGTACAATGG
601 CTTAAGTATC GCAAACCCCA TAGTTGGCAG TTTTTCAAAT ATGTGCCTAA TTGTACCAAT
661 GGATAAACTT GGATTACTTT TCTACAACAG CACACACCCG TCAGCTAAAA GCATTGGAAA
721 TTACATGTCA TGCCTTTTCA ATGCTGCAGT TGTATACAG CTAGAAAAGA GTAATCAAAA
781 ATTAGATAAT TTCGAAAAGG AAATCAGATT TGCAAAAAAT GAAGTCAACC TTCTAGTTAG
841 CGAAAGAAGT GTTCTGGAAG AAAAATCTAA AGAATCCAAA AAGCTATATG CTGCTCAGA
901 AGAACAAAGG ATTTCTCTTC GAGATGTGCA TAAAAAGTCC TCAATTGCAT CATCCAGATA
961 TGACGGCGGT GCCTGTCTGG TCTTGCCTT TTCTGACCGA GATTTCTCCT TGTTGTGCAG
1021 AACCAATGGA AATGGTTCCT TTTACTCTGC CACAGAAGAA GGAATCAGAT ACGTCTCTTC
1081 GGACGACTAC AGAAAGAGGG ACGTGGATGA ACGTAGGCC AGATTGGTCA GTCCATAAC
1141 TGGCTCAGAT GCACCTATAT GCATCAGAGA TAGTATACGA AACCATTTTA ATAACCATTT
1201 CATTGCATCC GGAAAGGGTA ATGAAATATC ATTCATCGAT CCTCCGAATG AAAGGTTGTT
1261 GATGGAGATG GTCAGAGAGG TTAATGGATC AGACATCAAA ATCTTCATGG ATAATGAAA
1321 AGTATATCAA GATGGTGTAG AAATAAAAGT GATTGACCCC TCTTCTAAAG AAGGCAAGGA
1381 CATAATAAAA AAGGAAGAAA CATTACGAGA GGAGGAAAGG AAGCGTCTGC GCCGAGAGCG
1441 TCGCATGATT TTCAACACAG TTAAGGCAAT TGAGACGTAC AACGAGGAAC GTGGGGAAGA
1501 AGAAGAAGTA GCCACAAGCA GTGGAGGAAC AAAGAGAAAG AGGGAGGAGA AAGAAGGCGA
1561 TTATGTTGCC CTTTTGAACA AGGCATGCAA AGAAATTAAA GTTTGTTGAA TATAATGGAC
1621 AATAAAACAA GTTATAACAT TT

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编号: C002

长度: 750 bp

碱基对组成:

226 A 186 C 165 G 173 T

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1   GCAAAACTA AGTTGGGAGA AAATGGACGT TTCTTCCTAT AAGAGCACTA TTGACTACCA
61  CAACATTGAA GATATGGACG ATCTCCAGCG CGCCACCTAC AAGGATCGTA TGGAGACGGA
121 ATTGGTCCTC GAGATGGCTA AGAAGGAGGG AAGGTACGTC CGATCGTTGG CCACCATGGA
181 CGAATTGGAG GTACCTGAAG AACCAGCCAC TTGCTACACT TGCGGCTACA CCTTTATTAG
241 ACGCAGGGCA CCCCACCAA AACGCAAGTC AATATTGAGA GAGCCTTGCG CTTACCCAGA
301 ACTTCTCCCC GATGCACCAT CCCCCTCCG TTTAGAAGAG CTTGTCGACG TGCCAGAAGG
361 AGCGAGTTTT TTCACCTACC CTCCCTACGA CGACGGATCT TCTACATCGT CTTACAAGC
421 CGAATGTGAA GATGATTATC CTCCACCATA CGACCCATCA GAAAATCCAC AGAGGTCCCA
481 AGTGTGTGAT TATTGTACCA CACGTCAAGT CCTCAGTTCT ATGACGGATC ACGCCAGGGC
541 CAACCTCATA AAAAATCTGA AGAGGGAGAA GAAGGCCCTG GGTCTTGGCC GTCGCAACAA
601 CTTTAGCTAC TAGGGTTGTA CAAGAAGAAA ATAGGATTGA TTGTATCGAT GACGAACCTT
661 GCATGTTTTT GACCATTCTT TTGCTTGCTG AGTGTACATA GCTTTATATT TGCCAATAAA
721 ACAGACCCCG AATGTAAAAA AAAAAAAAAA

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编号: C003

长度: 431 bp

碱基对组成:

146 A 68 C 99 G 118 T

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1   CTGAAGAATA TTGAAAGAAG ACTTCTTGAA GAGGACCGAT AAAAAAATGG CCACCTTCCA
61  GACTGACGCC GATTTCTTGC TGGTGGGGGA TGATACTAGT AGATATGAAG AAGTGATGAA
121 GACTTTTGAT ACTGTTGAGG CAGTCAGGAA GAGTGATCTA GATGACCGTG TTTACATGGT
181 GTGCCTAAAG CAGGGATCTA CTTTGTCTCT CAATGGAGGC ATCGAAGAAT TGCGTCTTTT
241 GACTGGAGAT TCAACGCTGG AGATTCAACC CATGATTGTG CCAACAACAG AATAAAATAA
301 AGACGGTGAC GGGAGACTAA TATCTTCTT AGTTTCCCGT CACGGTGAAA ATGTTGGTTA
361 TTTCTTCCCT ATGTTTAAAA ATTTGTCTTG GTTAAAAAAA TAAACGAAA ACTGTCAAAA
421 AAAAAAAAAA A

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编号: C004

长度: 624 bp

碱基对组成: 177 A 111 C 157 G 179 T

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1 GGCACAACAA CAGACCCTAC CCGCCCCAAT ATCATATTCT TTGAAAGTCT ACTCCCCAAC
61 TCTGGTATTG AGGTGATGAA GAGGCGTCTC GTACGGCAAG GAAAGTGTGG GAATTTTGAA
121 GCAAGTGGAG GTGCTATGTC GTATTTCTGG CTCGAAGATA ATGCAGAAGA TATGGAGAAT
181 CTCAACAGTG GTTCCCATGT CAAGACAAAC TGCTTGGCAT TATTCCTTCA AGAGTTTATC
241 AGCAACTGGA TTGAAGAGAC TGATCGACAT GGACAGTACT GTACTTTTCC CCAATACATG
301 GACGGTGGGG ATGGTTCACG TGGGGGATAT TTTACTTCGC TAGCCATGAA ATGGATGGCT
361 AGGGATGTGA CTTTCTTTGT GTTTGTTGAT AGGAATAATA CTGTAGAAAA TGCGGCATCC
421 ATATGGATGT ACCAAAACT ACTAGCAATT GGTGCAAAGG TAGTAAAGGT GATTGTTGAC
481 AATGCATCAA ACCCAATGTT TTCTGTATGT AATGCGTGTA GGTGCAAGTA CCCAGGCCCA
541 GTGTCATACG TTATTGAAGG CCATGGAGTG GGTCAATTCTG ATTTGACATG TGATGAGATT
601 TCTGGATTCT TTGTATAATA AAAC
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编号: C005

长度: 221 bp

碱基对组成: 88 A 35 C 35 G 63 T

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1 GAAGTTTTAA GGGTATCTCA ACTCAGATGG AGCCGCTTGT TCAATGAACA ATACAACACT
61 AGAATGTCCC TCAGACCAA AAGATTGAGC CTCATGAAGA TCTTCAACCA TGATTTGGGT
121 GTGTCTAAAT TTGGTGATA CAACTCCTA GATATTATTG AAATGTACTG TTTTACTTTA
181 ATCTAAACAA TAAAAATAAT GTAAAGAAAA AAAAAAAAAA A
```

编号: C006

长度: 300 bp

碱基对组成: 141 A 30 C 79 G 50 T

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1 AAGAAGACAC TGCCAAAGGA ACCTGCCGTT AAGAAGGTGA AGCAGGAAGA AGATGTGGAG
61 ATGGAGGAAG TGAAGGAAGC AGCAGCAGAA GAAGAAAAGA AAGAGGAACA GGAGGCGAAG
121 GAGGAAGACG CTACTGAGTA TGACGACGAT ACAGAAGAGG ACGAGAAAGC AGTAGCATCT
181 GATGAAGATG AAGATGATGA AGATTCTAAA GCTATTTTCT AAATATCATG TGTATAAAAT
241 GTAGTATTTT AAAGGTATAA ATAAACACAA TATAAAGTTA AAAAAAAAAA AAAAAAAAAA
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编号: C007

长度: 645 bp

碱基对组成: 208 A 106 C 161 G 170 T

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1 CTCCTCTGTC GCATCATCCG TGATGATGGA AAGAGATGAA GAAAATACAC TGTCCCTCAG
61 GAACAGGAAT GTGAACAAAC CAACACCTGT TAGCGCCGCC TGGGTGCCTG TTGATGAAGA
121 GGATGAAGAT AGGGAGGAAA TGAGAAGACT TGAAGATTTT TCTTCAGATG AAGAAGACGA
181 TGATAATAAA TCATGTCATT GTGACCATAG CGATGACGAT GACGATGACG AGGAGGATCC
241 TTCATGCTTT AAGGGTTTTT CAGCTGGCCT GTGCTCTTTT GTGAGGGGTT TCTTTGGCTT
301 CCTCAGGAAG TCACTTACCA AGAAACAGGT GTTCCTTCTT ACAAGCGCAG CCGTTGCTGC
361 TATTTTAAAG ACTAGAGATG TGGCTAAAC TGAAGAAGGC GCAGCAACCA TGGAAGAAAA
421 TTCAACAGAT GTGATTACTG GAGGAGATGG AGATAGTGGT ATTGCTGCTG ATGTTGTCTC
481 TCTCGTAGT GAGGGAGAGG GAGAAAATGG ATCTCTTTTG GAATCTATTG CAACAACACT
541 CATCAAGACT ACAATTGAAA ATCTTGTAGA TGGTGGAGAA GAAACCACAG AATTGTAAAA
601 TGTTTTTTGG TATACAAATA AAAGAATACA TAATTTAAAA AAAAA
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编号: C008

长度: 529 bp

碱基对组成: 205 A 84 C 109 G 131 T

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1 GCCCTTACCT CTCTTATCTG CATTTTCATC CAAGATGTTA GTGGATAACA TGTTGAAGAA
61 TAATTATGTC AAAGTGGAAA ATGTTAACAG AGAAAAATTG ATCTGGAAAG CATTTAGAGA
121 GATGCAAACG GAATCAGAGA TATGGAAAAC TAGTGGGAGT AAAGCCGCAT CCGACAGGAA
181 TGTGAAGAAG GCCAAGCAAG ACTTGATACG GAACGCATCT ATAGGAAGAC TTATTGTCGA
241 ACCTGTAGGA AAGACCCCTA TTTTCATCCAT AGCCTTATTC AGGTCTATGA AGGAGGTAG
301 AAGCGAAGAT TTAAAGATGG GAAGCAATAA TAAGTACCGT CTCGCCAGGG ACACGAAAAC
361 AGCTACACCA AGGAACCCCTC TAAGTTATAC TGGAAAGATT GTATTCTCTT TGGATGATTT
421 GAAAAATTTT AGTAAGGATT CTTATACTAC AATGAAAGTA TTTCTCTAA CACCTTTAGA
481 TGGATAGAAC CAATAAAATG GAATTGAAAA TATAAAAAAA AAAAAAAAAA
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编号: C009

长度: 1068 bp

碱基对组成: 323 A 254 C 277 G 214 T

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1 CGTCAAGATG GTGTCGTCTA TTACCCACCT CTCTCTGTTG TTCGTCGTGG CTGTAGTAGC
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186

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61  TTCCGTCGTT TTTACAACCTG AAGGAGCTAG TGTGAGAGTG AAACGGTGTG CTGTTAGCCC
121 GTGCCCCGAC GTTATTGACC CCGACCACCG CTGCCAAGGG CGACTGTGCC GCAGGTCTAC
181 TCGAGGAGGT GACGACGACG ACGACGATGA CGATGGAGGA ACTTTCGATA CAGTAGGGTC
241 TGGTATACTT GGACGCAAAA AGCGTGCCCG ACCTCCACCT GAGGATGAAG AAGAGGATGA
301 GTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGAGTTCTA
361 CCGCAAAAAG CGTGCCGCAC CTCCACCTGA GGATGAAGAA GAGGATGAGT TCTACCGCAA
421 AAAGCGTGCC GCACCTCCAC CTGAGGATGA AGAAGAGGAT GAGTTCTACC GCAAAAAGCG
481 TGCCGCACCT CCACCTGAGG ATGAAGAAGA GGATGATTTC TACCGCAAAA AGCGTGCCCGC
541 ACCTCCACCT GAGGATGAAG AAGAGGATGA TTTCTACCGC AAAAAGCGTG CCGCACCTCC
601 ACCTGAGGAT GAAGAAGAGG ATGATTTCTA CCGCAAAAAG CGTGCCGCAC CTCCACCTGA
661 GGATGAAGAA GGAGATGAGT TCTACCGCAA AAAGCGTGCC GCACCTCCAC CTGAGGATGA
721 AGAAGAGGAT GATTTCTACC GCAAAAAGCG TGCCGCACCT CCACCTGAGG ATGAAGAAGA
781 GGATGATTTC TACCGCAAAA AGCGTGCCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
841 TTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGATTTCTA
901 CCGCAAAAAG CGTTAAACTA CGCACGAAAG TGACGGTGGT TGAAGAATAG ACTAATATTG
961 TTGATATGTT AACCCCTTTT TTTTCATGAA TGTGTACACA CCTGCTATAT ATACGTGCAT
1021ATTTGAATAA GGAATAAAGT TTATCTGCAT CAAAAAATAA AAAAAA

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编号: C010 长度: 1103 bp

碱基对组成: 386 A 208 C 191 G 318 T

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1  CTATTTTAGG GTACTAGAAA ACGTTGTCAG AACCAATCAT GAGGTTTATC CCGATGTTGA
61  TAATTGCGCT TATCGCTGCA TTTGTTATTG CAGCTCTTCT TACTGCCAAT TCAAAATTAC
121 TGGATCACAA TATCAATAAG GAACTAAATT TGACCCGTTT CCTTCAACTT CGGGGAACAT
181 TCACACCAGA AGATATAGCT CATAACAACA GAATTCTCCC TTCCAAGCTG AGTGTTTTAG
241 AAAGAGGGTC AATCATTTTA GCAGAAATGG ACAAGTACAA AAATGCACAA CCTACAGTAA
301 ATAATTCTGA AGAGAGGAGG AACATTTCTA CTCCTCAACA ACAACAACAG ACCACCCCTT
361 CATCCCAATC ATCTTCCCAA GTTGAACTTT AAATTCTATA AGAAAATGCT GATTTTTTGT
421 CCTGTATGTG ACGAGTCTCG CACCGACGAG AAAGAAGATT TTAACAACGA TGAGGAAGAA
481 AATATATTAAG AGGAGGAAGA AGTTAGTGGA GGAGAAAAGG TTGTAAATAT CGTAGTAGGG
541 AGTATTAAGA TGATGAAACC TGGTTCAAAA ATCAAAACAA AGTACAGGCT CTACTCCCTC
601 CTTGCAAGTG CGATAGGGAG TAGAAAGAAA CTGAAGAAT ATATTGAACG TCTATACAAT
661 TCCTTTTCTT CCATGACGTT GAATGAAGGA GGACGTCTGG CTTGACGAT TTATTGTCCA
721 TCCTACAACA ATAAAAGGAT AAAAAACAAT CGTTCTAGGC CTGTGAAGCT GATCCATGCC
781 TCCAGGGAAT TGTTATCTGA AACTACGGTG AGGGAGGAAA TACTACGGAA ATCTCCCGCT
841 TCTTCTTCTT CTTCTTCAAC GTCATCATCC ACTTCTTCGT TTTCTTCAAT TTTTGTGTTT
901 GAGCCTTCTA ATTGTACTTC TAAAACGTGA TGCGATTTTG TAAAACACAT ACAGTATGAA
961 GAAGATATTA ACCGTTTAAG GTATAACATA ATACATATAT CTGAAGAAAA CTATGCTTCA
1021AGATTTTCTA AAATTAATAG ATTAACATA TGTATACAAG GTATAAGTAA GACAATAAAG
1081ATTCTATATT CCAAAAAAAA AAA

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编号: C011 长度: 1105 bp

碱基对组成: 375 A 167 C 264 G 299 T

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1  CTATTACAGG ATCACATGCA CATGCTCCTA GAGGGGGGGG GTGGCTGTGT CCTTGATATA
61  AAAGCGAGGT TGGCACAGAC TATCAAACAT TCAGCCGTAA ACCATGGAGG AAGAAAAGTCA
121 ACGAGTACAG AGGAGGATCG GAGTCCTCCC AGAAGAGGCT GCCTCCCAGA TCCTGAAAGA
181 CACCAAGTTA AGAGTATCAT ATCTGGGCGT GGGACATTGG GGATACTCTG TTTCAGTTAT
241 AAAAAGTGCT CTCCAGAAAG GATGCAGGAG GAACGATGAG GATATAACTG CGTGGTCAAT
301 CAGGGAGGCT TATCTCTATT ACCATCTTGG ATTGAATTAC ATTGAAAACG TAAAACCTGC
361 TGCAAAATCA TTAATAACAA ATATGGTAAA CAGAATTAAA ATCATAGCTG TGGAGGATAC
421 CAGTCCTAGA AGTATGGTGG CTTCTAATGA GTGTGTGAGA ACTCTAGAAA AATATGAAAA
481 GGGGAATTTT AGGCAACCCA GTTACTTGAT GGATGCTGCC ATGAGGCTAG TTCACGCCTC
541 CAGTTCTAGA GTGTGCTCCC ACATGAGAGC TTTGTGTTGC AAGGAAGAGG ACAGTGATAA
601 ATTAGGGGGT ATTTATTATG CTAATTTTAA TGAACCTGAA ACTCAGTGTG TTAGTGCAGT
661 TAATTTTCTT CCCATAGAAA GAATTAACAA CGTCTTCAGG GAGATTGAAA GTGTAAAATT
721 GGGGAAGAAA AGTGTACAGT TATTAAATTT AAGAAGTGTA GCAGCTTACC ATGTGTAAAG
781 ATATTATGGG GATAAAGTGA AAGATACAAA TAAGAAACAT AGTGGACCAT TCAAGCGAAA
841 AGAGTTTGAG CAGTTTGGG GGTATGCTT TAAATTTGTT ACTCAGCACG TAAAAACAGA
901 CCCTGAATTA CGTTGTTATT TTAATGAGTT GACATATGCC ATAAATTGGA GAAGGGATTT
961 TTTCTGCTCA AAAGGGTTCT TTAGAGAAGA AAGTCTATT CTTACATCTA TTGTGGAATT
1021AATTATAGCC ATGTGCATAG GTGACCGTAA ACAGTTTGCC AAGATTGAGA AAAGGGATTT
1081AAAACGTTTC AAAAAAATAA AAAAA

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18

编号: C012 长度: 650 bp

碱基对组成: 211 A 144 C 127 G 168 T

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1  CCCCTATCAG CTTGAGAAAT ATTGACCCAG AATCAGTCCC CGACACTCGA TTCCACTTTC
61 TGCTCATGAT GTGGCAGCGG CCAATATCG ATGAACCTAA TCTTTCTGCT CTAACCTACAA
121 GTCAGCTAGA ATTGTTGCTT AGCAAGAACC AAAAATGGGA CAACTCACC ACCAGAGCGT
181 TCTTCAATAT CGACAGGATC AATTTCCAGA TGGCAGACGC TATCATTAAG AACGTTTCTG
241 GAAGCGGCTT CCTAGATGGG AGTAAACTG CCTCTTCTTC TTCTCAGCG CCTAACTTTT
301 TCCAAATCTT CAGTGGTGCT GAATGCACTG CAAAGCAGCT CCAAAGTATT CGCAAATTCA
361 TTGGAGAATC TATGCAGCAT GTACAAAAGG AATGGAGTAG TGCAGTAAAC AATGGGAACA
421 GAGGAGTAGA AAATTATGAC GGACTCAATG CTCAGTTCTC TGAAGAACTG TTCGAGCTGC
481 TCTACAAATT GATCATCGAG GAGGATATGC GGCCATCCAG CCTGATCGCC TCATCTGAAT
541 TCTTGAGCAA CTACGTCAAC GCCATGGATG AACTTCTTAT CAGAGCTAAT GCTTCTTAGA
601 TAGGGTTTTT ATGAAATAAA ACAAATATAA ATTATAAAAA AAAAAAAAAA
  
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编号: C013 长度: 524 bp

碱基对组成: 213 A 78 C 129 G 104 T

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1  GTACGAAACC ACTTCAAGAC GAGACTTTTC TCCCGCACCA GTGGCAATAG TATAACCTTT
61 GCAGTCCCTC CAGGAGAAAG GGAACCTAAT GAAATGGTCA GAGAGGTAAC AGGAACAGAC
121 ATCAAAATTT TCATGGATAA TGGAAAAGTA TATCAAAATG GTGCCGAAAT CAATGTGATT
181 GATCCGACAT CTAAGGAATA CAAAGAGTTA CTCAAAAGGG AAGAAAACCT GCCCGAAGAC
241 GAACGGGAAG GTTTCGCGCG AGAACGACGC ATGATTTTCA ATACGTCAAG GGCAATTTC
301 ATGTATAATG AAGAACGTGG AGATGGAGGA AGTGGAGGAG AAACCTCAGA AGATGGAGAT
361 GGAACGGCA GCACCAGCAG TAAAGGAGAG AAAAGGAAAA GAGAAGAAAA TGAAGGGAAT
421 GAATATGTAG TCCTTTTGAA CAAGGCTTGT AAAGACATAA AAGTTTGCTA ACCATGCATT
481 TATTTTAAAT GGGTTTGGGA CAAAAAAAAA AAAAAAAAAA AAAA
  
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编号: C014 长度: 715 bp

碱基对组成: 225 A 145 C 144 G 201 T

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1  CTCCAGTACG TCCAGAAATG ACTGGTCTTA TTGGTGCAAT CTCCGCGCCA GTTAGAGGTA
61 TTAGCCACTT GTTGAAACTG GGAGGTGTTT CTGCTGCTAA CGCAGCTATC CGCAAGCGCC
121 TCAACCTACC TACATCCAAC GGGAAAACAC TACCAGAACA TGGAATCGTA CACAAATCAG
181 CCAAGACACT TTTGCTTGAT TCAGACTCTA TTAGCAACCT ATACAACACT GATCTTCAAG
241 ACGTTGTCTC TAACGCTAGG GATAACAACA ATTTGGGAAG AATTATGCAA TCTTTGGGAC
301 TTAAGGGGAA TAATGCAGGG GATTTGGTTT ATTCTGCTAG ACAACTGACG GACCTTATTA
361 CTGTACCAGA ATATGGAAAC AATCGCGATC TTACCAAGCG TCAAGCTATC CTTAAAATGC
421 TCATTTCTAA CCCTGAAATT CTAGAAAATG TTGCAGATAC CATTTACCTT ACAACAGGTA
481 AAAATGCTCT CGCACC GGTA TCTGCTCAGG AAATGGCTTG TCGTCTCTG ACAGTCGGAG
541 GAAGTGGAGG AGGAAAACCTG TCATCAGACG ACAATGTTCA ATCCCTGAAC CGCCTTTATT
601 TTCGGGTCTA GACTAGTGTA ATATTGTATG TTTAATTTAT TGTGTAACAA TTGGTTTATA
661 TTTGTATGTG ATTTTTTCGG ACAAATAAAA GAATTGGAAT AAAAAAAAAA AAAA
  
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编号: C015 长度: 1077 bp

碱基对组成: 338 A 192 C 209 G 338 T

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1  CTAGAATTGA GAGACGTAAA ATCAGTTTCC CGTTTAGAGG AGAATACTAA CACCTTTTTC
61 CATTTGTACA CTTCAATGAG TCTTTGTGCT AAGGCTGCAA CAAATTACGG AGAATCTTCT
121 TCTTCTTCTG CTACTATCAC TGAAGTAGAA GAAGACAATA GTTGTGATGC TGAGGAACAA
181 CAATTGCGCC GTAAGAAACC AGCAAATTAC GAGTCCATGT GCAATAAATT ACCATCACCT
241 CTTCAAATGT GCCAGATTAA TCCTAAATCT TTGAATACAA TGGCTATGAA TATTGCTCGT
301 TCTAGACAAG GCGCATGGGC TCAACTAAAT AGCATGCTCA ATTCAGTTT ATTGTAGAA
361 ATGCCCTTTG TTAAGACCAC AAGATTCTTT GGGAGAGATT TTAACATCAA GATGCACTCT
421 CCTGCCACAA AGAATAGGCC AGCCATCAAT TTTGACAATT GTATTGGTAT GAGTTTACCA
481 AATCCTGATA TGGGTGTTGT AGGATATGAT AAGGAAGGGG AATTAATAGG AGTTGGTTCT
541 TACTTAACAA AACATTTGTG TGATGCCTGG GGTTCATGG ATGTTAGGGA TTTGATGTAT
601 TCTTGCCACC ATTTACACAT GTTGTTTGAA ATGGCTCTCC AGTATACTGA ATGTAAGAGG
661 AGACTTTCCT CATTA AAAAC ACTAAAGAGT GATAAACTG GTGTTGATTA TGTGCTGTA
721 ATGTTAGCCT GTATGGTGTA CCAATTGATG GTTAGTAATC TGAAATACCC TGTGTTTTTG
781 TCCTCTTCAT CCCACAAGAG GGCAAATACA GAGGATATTG CGGATGAGAA TCAAGTTTCT
841 TCACCTATCTG TTCCCATGTT TCTGGCAATG GTTGTGAATA AACCGTTGCA TGCTCTTAGA
901 CACTCTACCA ATTTAGCTCT TCCTAAATGCT TGTCAAAAAT CTGACCATTG TGATATTGTC
961 AAGTACATTG TAATGAACCA ATGGGGTTTG AGACTTAACC CTGATTATCT GTGCCCCAAC
1021 TGTGTAAAC ATGTTCTTTG ATCAAATAAA AGAATTGATG AATAAAAAAA AAAAAA
  
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编号: C016 长度: 724 bp

碱基对组成: 248 A 144 C 146 G 186 T

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1 CAACACGTAA AGGAAGAACT TCCATCTAAA ACAAAGAAAA ATGGAATTTG GCAACCTAAC
61 AAACCTGGAC GTTGCAATTA TTGCAATCTT GTCCATTGCA ATCATTGCTC TAATCGTTAT
121 CATGGTTATA ATGATTGTAT TCAACACACG TGTTGGAAGA AGCGTCGTCG CTAATTATGA
181 TCAGATGATG CGAGTCCCAA TTCAAAGAAG GGCAAAGGTA ATGTCAATTC GTGGAGAGAG
241 GTCCTACAAT ACTCCTCTTG GAAAGGTGGC CATGAAGAAT GGTCTCTCCG ATAAGGACAT
301 GAAGGATGTT TCTGCTGATC TTGTCATCTC TACCGTCACA GCCCCAAGGA CTGATCCCCG
361 TGGCACTGGG GCCGAGAACT CTAACATGAC TTTGAAGATC CTCAACAACA CTGGCGTCGA
421 TCTCTTGATC AACGACATTA CTGTTCCGCC AACTGTTATT GCAGGAAACA TTAAGGGAAA
481 TACTATGTCG AACACTTACT TCTCGAGCAA GGACATTAAA TCTTCATCTT CAAAAATTAC
541 CCTCATTGAC GTGTGCAGCA AATTTGAAGA CGGCGCAGCC TTGGAAGCTA CAATGAACAT
601 TGGATTCAAC TCCAAGAATG TGATCGATAT CAAGGACGAA ATCAAGAAGA AGTAAAGTGG
661 GAATTGTACA AATATAAAGG TTTTGTTTGA ATAAAAATAC AAGTAATTTT AAAAAAAAAA
721 AAAA

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编号: C017 长度: 864 bp

碱基对组成: 300 A 211 C 160 G 193 T

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1 CTTCCAACCG ATTCAGTCAG CTGAGGGGCA ACGAGGAGAT GGTGTTGGGAC TATTCAAGAT
61 GGACAACTGT CAAGAACAGG AGGAACAGAC AGCAACAGTA TTCCCATAGT TTCCGTCCCC
121 AACACAACA ACAACATCAA AAAAGAACAT CAACCAATTC TCCTCCTGCT CCACCTCCTC
181 CATTCCCCAT CATTAGTTGG GGAGCCCTCG GCAGCTACTC AATGTATCGA CTGGATGACC
241 AGTGCAGAAA TTGCGATGAA ACTGGCTATT ACAATTTCCA CTCTTATGAT AGAAAGAGGG
301 AAAGAGTTCT CTCATTAAAC AACACTCCAA GTGAAGGCAT GTGGCGGCGC ACAAGTAGAT
361 CTTCCCCCTT CCTTAATAAG AAGAAGGACG TTGACGAAGC TCCACCTCCT CAATCAAACC
421 AACACATGTA CCCCCTCAAC AAGTACAGTT TCCGTGAATA TACTCCTTCA TCAAAGCTTG
481 TGAATTGGCG AGACCCTTCA CAAGAAAAAC AGGACAAGAT CTTACAAGAG GAAGAAGCTC
541 GCGCCCCTAC ACCCACTCCC CAAGAAAAGG AACCAGAAGT AGAACTAAA GATGATGTTG
601 TCATCGAGGA AGAAACTGCA CCAGAACCAG AACCAGAACC AGCCCCAGTT CCAGACCCAG
661 ATATTCCCGC AATAACTGCA ACTACTACTA CTACTACAGT TGCAACACGT CACGACGATT
721 CTTCTACAGT ATTTCTCAGA AATGTTATTC TGAGTATCGT GTTTTGGTTT CTGGGTGTTT
781 ATTCTGCATT ATTTGCAAAA TGTATTAGAT CTAAGAAGGA ATAAATAAAA TGGTATATGA
841 AATTTAAAAA AAAAAAAAAA AAAA

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编号: C018 长度: 513 bp

碱基对组成: 162 A 119 C 103 G 129 T

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1 CGATAAAACA ACAGGTCTTT ACGTTACATT GACGTACCTC TTCATCAAAC AGAAAAAAAA
61 TGGCCACCAC GACTAACACT CTTCTTTTCG GCAGGACCGG AGCCAGGCC GCTGGCCCTT
121 CTTACACCAT GGAAGATCTT GAAGGCTCCA TGTCTATGGC TCGCATGGGT CTCTTTTTGA
181 TCGTTGCTAT CTCAATTGGT ATCCTCGTCC TGGCCGTCAT GAATGTATGG ATGGGACCAA
241 AGAAGGACAG CGATCCTGAC ACTGATAAGG ACACCGATGA TGATGACGAC ACTGCCAACG
301 ATAACGATGA TGAGGACAAA TATAAGAACA GGACCAGGGA TATGATGCTT CTGGCTGGGT
361 CCGCTCTTCT GTTCTCTCGT TCCGCCGCCA CCGTTTTTAT GTCTTACCCC AAGAGGAGGC
421 AGTAAAAATA TAGAAAACAC AACATCAGGG ACAAAAATTA TAATTAATAA ACCTTTTATT
481 ATAAATAAAA ATTTATTTGA AAACTTAAAA AAA

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编号: C019 长度: 129 bp

碱基对组成: 50 A 32 C 14 G 33 T

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1 AGCAGCAGTC CTCCTCCTTC TTCTCCTCCT GCACATAAAA AATCACGTCT TCCGGATGAA
61 GGCGAAAAAT GTACACTCTG TTAATTTTTT CAAACAATAA ACTAACCACC TTGTAAAAAA
121 AAAAAAAAAA

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编号: C020 长度: 234 bp

碱基对组成: 113 A 37 C 32 G 52 T

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1 ACAACCTCCA CATCTCCTTC TAATTCTAAC ACACAAGAAA AGGATAAAAA TAAATAAAT
61 ATTGATGCTA ACAAATTTTA TTCAAGAGGT CACAAACATG TACCAATATC AATTGTAAAA
121 AGCACGTTAA ACAAAGCGTT AAAAAATAGCA GGTATGTCTG CTATGAGCAA AGAGCAAGTG

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TTAACAATGT ACCAATTAAT AAACCTTAGG TAGGAAAGAG AAAAAAAAAA AAAA

18/

编号: C021 长度: 587 bp
碱基对组成: 220 A 115 C 102 G 150 T
1 ACTTGAGATT AGACACTATG TCATCTCTAT GGGAGGTGCT GCAGTGACAA AGATTTCCGA
61 TGAAGATTTG GAACAATTCA CGCCTGTAAG AGGTGCTGTC TCTGTCACTA CAGCACCTAA
121 TGATAAGCTA CCTGTAGGGG CACATCAGAC ATGGAAGGAT GAACAAACAC TAAAAACAAA
181 CACTAAACGT AATAGTCTAT ATGACTCTTA CAATTCAAAA AGGAATAATA GGGATAATAA
241 TAAAAATAAA AATCGTTCAT TAAACTATC AGATTTTAAT TGGAGAACAC CCAATATCTC
301 TATTCAAGAA TTTAATGCAA ATAAAGATGA TGTTAACAAG AAGAGGTACG CAGAAGTCGT
361 GCGTCAAGCT GCTCCAAAGT CACCTTCACC AACGAGCAGC AGCAGCAGCA ACAGCAACAG
421 CAGCAGCCCT CCTCTTTCAC CGCTCTCACC AACAGTGAAG AATAGTAATA ATAAACCATT
481 GTATATTCCCT CCCCATAAAA GAATGACCAC TACTGCTGTT TGACCAATTT ATGGGTTATT
541 TTATAATGTT GTGTGATATT TTATACAATA AAAATATATA AGAAAAAC

编号: C022 长度: 1060 bp
碱基对组成: 270 A 235 C 300 G 255 T
1 AATCAATTAT TTTTATTATT GAATTTACAA TGTCTACAGT ATACTGCAAC AAACCTTCCC
61 TTTAATCGGT GTTAACCTTTT CCAATCTTTA AATGCTGAGG ATGCATTATG AAGTCTACGA
121 CGAAGGACAC TCGACCACAC ACGTAGCTCC ATCCTCGCAC TCCCGCGTTA CTCTACTGAA
181 GACCTGGTTG TCGGGGCGAGA GGAAGTTCGA CATGGTGGGG GCGGTGCACA GGTAGAACCT
241 GTGGCAGTCG GTGGGGTCCG GCACGCGTTC GGAGTCCTGG GTGCAGTGAG GCTCGCAGAT
301 GTTGCAGTAG TTGTAGCAGA GGGTGTGCTC GTTCTGACAC TTTCCCGTCA AGTAATCGAA
361 GTTAATGTGA TGAGTTGGGC ATTCTTCCCC GAGCAAGTTG TTATTCTGCA GGCAGACGTA
421 GTACCGGTAG CACTTGGTCG GGTGAGGCGT GAGCTCTCCT GGACTGCTGC AATGTGGCTC
481 GCACGGGTTG CACAGGCGAG AGCAGAAGTC GCTCGGAGCT CCGGCTATGG GGTGCGACGG
541 AGGCGAGGTG TGGTGCTCGT TGAAGTAGTG GCGTCGCGGA CAGTCCACGG TTCAGACGGT
601 AATAAGATGC CGTCGCCAGT AACGTCGAGG CAGACGTAGT ACCTGGTGCA GTCGGTGGGG
661 TCCCGCACTT TGGTTCCGGG GTCCACGTCC GTGCAGTCCG GGGCACAGAG CTGCACATTC
721 GGAGACACCG CGATGAAGAG GAAAAGGAGG AGGGAGCACG CGTGGTCAAA CAGATACACC
781 AAATCATGTC TGATATGACC AGAAACATCA TCGTCGGCTT GGCCGTTGTC GTCATCGCAT
841 TGAGCATGGT CGCTTTTCATG CTTTCTGTTA CTCCTGCACT TACCGGATTC CTCCTAGGTT
901 TGGGTGTATC AGCACTAGGA GTTACACTCT TTGGATGTCC CACTATGAAA TCTCCAGGGG
961 GAGGAAATGC TACAATCAAC CCCGTGGCAT AAAAAGGTGT TTAACAAAAA TCAATAAATT
1021 TGGTAAATAA TAAAAA AAAA AAAAAA AAAAAA

编号: C023 长度: 650 bp
碱基对组成: 250 A 116 C 130 G 154 T
1 GGAGGATTAA TTTTAAACCG CCAAGTTGTT GGACAAGAAC AAGCACCACC AATAAACACG
61 TCGTCGGATA CTAAAAAAT AAGACGTGAT GCAAATATTG AACCAATAAT AGGGACGCCT
121 TATAGTGTA TTAAGGCAAG TAAAGGAGTA TCAATTTTCA TACTGGATGA TTTCAATGAG
181 GATAGTCCAG AAGATTTTCG CTTTAAACT TCCATCATCA ATGATGCCAT ACGAGAAATA
241 GGGCAACGCA TGAATTATAC AAGACCTATA TTTGATCATC AAACACAGAA AAATATACAC
301 TACAGTTCAC CTAAAATTAT TCTCGAAGGA TCAGATTTAA AGAATGGACA ACGTTCAGGA
361 CAATCTTGGG CTCCTTCTTC ATCATCTTGG ACTCTGGCCT CCGATTGGAA TCTACCTTCT
421 CTGGAGCTTT TATATAGAGA ACTTGCCACA AAACAAGTAG AGAAGGAAGA AGAAGAAAAG
481 AGCGAAAGGG AAGAAGATAA AGGACAAAAA CTTAATGAAA AATTATCATT TGTCGTGAAT
541 AAAGCTATCG GAACTATCCA ACAACAACAT CAATATTCTG AAAGGGGAGG AGGAATGAAG
601 AGGTATCAGC AACACTCTGC TGATCAAGCT AGTAATGGTG GCATAGATGA

编号: C024 长度: 365 bp
碱基对组成: 153 A 53 C 52 G 107 T
1 ATACGCTACA AACAAAACAG AGGACTGTTT TTGTAGTTTA CTCCCCAACT GTTATAATGT
61 TAAAAAGGCA TCAGACTATT GGATAAGCTC TGCAAGCACA GCTAAGGAAA AAACGTACTT
121 GTTTATTGCT AATAAAAAATG ATGAAACAAG TTTCTTCTAT AACTTTGAGG AAGGTGTTGA
181 AGAAATTGAC CTGGACATTT TTATGACAAT AGATTGTGCA CCTAATCTTC CTTTCATTAA
241 AAATTTACCA AGACCTATTA CAGATAATAA TATAATGGTT GCACTGTCAT AACACTAAAA
301 ATATTGTATC ACATACAAAA AAAGGTATAA ATAAATTGCA ATGATATATA AAAAAAAAAA
361 AAAAA

180
编号: C025 长度: 624 bp

碱基对组成: 222 A 115 C 111 G 176 T
1 GTTTTCTTTA TTCTAGCAAT AACTGCCTTA GCTGTCGCTC TCTATATACG ACATGCTTCT
61 AAACAAGAAA AATACTCCAC TTCTCATATC AATGAACAAT TTACTGCCAA ACAGTTGCCA
121 GTCACCTACT TGTCAAAAAC GGGTAAATTA AAGGACATGC ACTTGACCCA TTCCGATTTT
181 ATGGCATATG TTGATGTGCA CAATAGAACA AAAACTCTGA AGCACCCCAT GTGTACTGAC
241 GAGGCTGGCT GGGCCCACTT TTGCCTGCTG GCTTCTGCTG AAGCTTATCG TCGCATCCGT
301 TATGGGAGAG GAGAATTTGG ACCAGAAAAA CATTCCCTAG CTGAAACTAT CCAATCGACA
361 GTACAAGATA TGTCGGAGCC ATATATAACC CACATCTTCA AGAAGAACAC GGATGTTGAT
421 GGACACGGAA TGCAATCTGT TTTGGAGAAG AATAGGAATA AAATCAGAAT GGGTGATGGA
481 AAAACGTCAT CAGAAACTTA TAATCTTAGT GATAAGTCTA TATCTATTGT TGGTGATATG
541 GAATAAAACA ATGCAATTTT TATACATGTA TAATCTTTAT TGTTACTAAA ATAAAAATAT
601 ATAAAAATATA AAAAAAAAAA AAAA

编号: C026 长度: 679 bp

碱基对组成: 244 A 164 C 110 G 161 T
1 TTACGATCTG GCCAATGTTA CCCCTCAAGT CACAAAACCTG GTAACATTTT CTGGTCCAAC
61 CTATGCTAGT CCGCCTACAC CCAGGCCAGT TGCCAATACA CCTCAACAAC AACCAACAAG
121 TACAAATAAA GAGGAAGAAA GTGTCTATAT GCCAATGTCT AGCTGCTCGT CGTCATTTTC
181 TTCTGACAAT AGTCTTCCTC TGCCAACACC GCCGCCATCT CCACCTAGAA GCAATGGCGG
241 TGATTACGTG TCATATGTAA ACGGACGACA TCTGAAGCTT CCTTCAAACC CACCTTCTCC
301 CATCTTCAAT ATCAAGAATG AGGAGGGAGA GGATGATAAT GTGGAAGAAC ATGTCTACGA
361 ATACGTGCCA GAAGTACCTC AACAATCTCC ATCTATCCAG AAGTGTATCC AGGAATTGAA
421 GGAGATGAAA CACAAGAAAA ACACCCTAAC CAGGAGCAGT AGTAACAACA ACAACAATGC
481 TCCACGTATA ACCCAAGTTA CGTTTAAGAA ATTCCCACCT AACAATAATA ACATGTGGGA
541 GAATCATGTG TATGGAAACA CTACAATTGT GTCTTCCACA CCTTCTCCTA CCTTTATTCC
601 TTCACCTAAA AGTATCATAA GGAAATTGTC ATTTAAGAGG AAACAATAAA ATATTATATA
661 AATTAAAAAA AAAAAAAAAA

编号: C027 长度: 537 bp

碱基对组成: 197 A 62 C 110 G 168 T
1 AAAATTTGAA GATGTACATT ATATAGATAT CAATTTTCAG TCCTTTGTAA GAGAACAGAT
61 AGGTTTAAAGT GTATTAGGTA AAAATGATGT CCAAAAAGAAG AAGAAGGAAG AAACCCCTTT
121 CTTTGACCCC TTTAATAAAT CTAAAATAGG AGGTGAATGC ATAGAAGATT TAAAGTATGA
181 TTCTGAGTCT GTTTCTATTA TAAGAGATGT GTTTAATTTA TTGGGTGAAA TGCCTACTGA
241 GGATGTAAAG ACATCAAGAA GTTGTATAAA CCCTTCCCAC AATGATACGA ATCCTAGTAT
301 GAGGTTAGTG TTTCGTCCCA TGTACTGGAG AAATTCTAAG CTGGTCATGG ATAAATTATC
361 CAAGGAACAA GACTCGGCTT TGATTGAAAA GTATATGGGA GGAGAACATC AACATTGTAT
421 CATTGGAGGG AGAAATGTAT TATTGTATTG TATAACTGCA CTATGTTTTA GCTCTGATTG
481 TGGATTTAAA AAGATGTAA CTAATGATGA AATAAAACAA TTGATATGGT AAAAAA

编号: C028 长度: 597 bp

碱基对组成: 196 A 127 C 126 G 148 T
1 AAAATACTCC TCAACTTCCA ACAAGAATGG GCTCTGCTAA CTTGAACGAC CGAACTCTAC
61 TCGTGAGGGA AGGGCAAGTA AACGACTACG GGTCTACCAA CAAGAAACAA CCAGTGTGCT
121 GTCACATTTG CTATCTAGGA AGAGGAGGAA GAATTGCATG TGTCATCGCA TCTGTTCTGG
181 GCTGCGTCCT CCTGCTGGTG ACTGTCATGA CTTTGTGAT TGTGGTACTG GGAAGTGCAC
241 CAGTTAATTG TGATGTGAGC CCACAGAGCT ACTCGCCGCC GCCGCAGCCG CCGGTGCAGT
301 TTCATCCTTA CCATTCTTCT TCCACAACCA CCACTACTTC CACTACTACT ACTACTACAC
361 CAACTCCACC AGATACTAAA AAAGTTGACG ACGACTATGA TGACGACGTC AATATTGGAG
421 GGCAATCAGT TACTGTGAAT AATGGAGGTG TTTTCATCAA TGGAAGAAAA CTCTCAAAAG
481 AAGAAGAAAA AGCAATGGGT ATCAATACAG ATAATGGAGG ATTTGTTTGG AAGAATGGT
541 TTTTTTCTCA ATATGGCAA AAATAAAATA TGATATATTA AAAAAAAAAA AAAAAA

编号: C029 长度: 1212 bp

碱基对组成: 424 A 187 C 277 G 324 T
1 CGAAGAAGCA GAAGAAGAGG ACGAAGAAAA TGGTGAAAAC GAAGAGAACA AAGGTGACTG
61 TGTCACGGAA AAAAAGATCC CTGGACGAAG CACTAACAAG GATGTTGGTG AAGAACTAA

121 AACAAAGCGAG AAAACGGAGG GAGAAAGAAA GGGCTCTAAG ACGGCAAAGG GAAAGACGGA
 181 GGAAATTGCT AGTTCGTTGA GTAAATGTGG GAAGAAAGAT GCGAGAGATG TCATTCTTGA
 241 CCGTTTACTA AAAGCAACAC ATTCTTCTTG CACCAACAAT GAAGAGAGAA CCAGAGTCTT
 301 ACAACAATAT AGCAATTGTA CATTATCTTC CTATATAACT TCAGTCATGA AATTGGACCA
 361 AAGAGTAGCA GACCAAATGG AAAATTTAAT ATCTCAATTG GATCAAATAC GTAATCTCTC
 421 CAACAAGAAG AGGCAAGAAA AGGGAGGGCC TTTTAAGTCT GAATTGGACG CCATGGTTGC
 481 TGCAGTTAAG GTTAAGTTTT TCCCAGTTTT AGATGCGTCT AGAAAATTGA CTCAAGACCA
 541 TTGGAAAAAG TGCCCCGTGT CCATCCCAGA AACGCGTGAA GAAAAACCAT TAATGGGTGT
 601 GCCTTTTGAA GTTGCACTCA ATTCTCTAAT AGGAAAACAC AAGTGCACAG ATACATGCGA
 661 CATGGCTTGT TGTCAATCAT TGTATTTTGT CCTCTTGTAC ACGCTAGCTT TAAAATTTGA
 721 GAACGAAAGA TTGGCCCGGC AAATTGGCCT AGATGACTCT GTAGATTTGA TGGCTGAGAT
 781 GTTGTTGCGA GGGGATAAAC TATTGGCCCC GGAAGTGTTA AAAAGGGTAA AAGATGCTCA
 841 AGATAGAAAG TTGGTGAAAT CTTTATTGCC TTTAAATTAT AACCATGACA CAAATACAAT
 901 TATATTTTTG TTTGAGTCTT TAAGGTTTGC TCAGAAACCT GTAGCTGGTA TGAGTGTAG
 961 TGAAATAAAA GACGCTGTTA GAGGTCTGGC CTTTTCTACC ACTACAGGTA CTGTGTGGAA
 1021 TTATACTGAT GAAAGATTTT TTGGACCATT GTATAACATG GATGAACTTT GTAACGAACG
 1081 TGTCATGGA AATTGTAAAT TGTCCTTTAT AACTGGTATT TATCATACGG CAGCAGTAGA
 1141 ATTGGCTGCT GCATGTCTAT CTTGTGTTTT GTAAGAAATG ATAATAAAAA ACATGTATAA
 1201 TTTCAAAAAA AA

编号: C030

长度: 403 bp

碱基对组成:

142 A 87 C 69 G 105 T

1 TGAAGGAACT GTAAGACGTT GGTATAAAAG GTGAGCGTGG ATGTACCTGA GCCACATTAG
 61 ACAACACCT TTGGTTGAAG AAAGACGTGC TCTCACCTTC AAAATGTACC ATCATAACAA
 121 CAATAATCAG CACTCCTTTG TGAATTGCCA GTGCAGGCGA ACTTCTTCCT CCATCAACTG
 181 TTCAAGCTGT TCCCGTGAAA CTTTCAACTC AGTAAAGGCT ATCCAGTACT TCAACAAAAAC
 241 TAGCAGAAAT AATACTGCAC ATCATTTCAA GATGCCGGCT TCAAAGGATC GCAACTATTC
 301 TTCTTTTCGAG TATGCTGAAA CGGCAGTTGC TGCTCACAAT ATATCTCAGT GGTGATTTCT
 361 ACGACTAAAT AAAATATAAC AAACCTTTAAA AAAAAAAAAA AAA

编号: C031

长度: 548 bp

碱基对组成:

189 A 75 C 132 G 152 T

1 GTTCAATTA TTGTACAATG AGAGATGAGG GTGGTTTCAG GCCCGTTTG ATCATGTCTG
 61 CCTACGGGCC AACATCTTAC CCTATCATCT TCAATACTTT ATATGATCAA TTCAATGTGC
 121 AATATTATCC ATGTGTTTCT GGAGTTGTTT TATCTTTTAT TGGCGATGAT CAGTTAGCAC
 181 CAGAACCAGA ATCATTAGTG GACATTGTTG TACGTTCTAT AAAAAATCCG TCTATTAGAA
 241 TTTTCTCTGG TGATGGTGAA ACAGTATACC AGGATGGACG TAGGGTCGAT GTTGGTGGTG
 301 AGGGAAGAGAA TCAGAAGTTT AACCGAGAAG AGCGCACCAT TTTAAATGTA TTGAGGATAA
 361 TTAAAGCATA TAATGAAGAA CGAACTAAAG AAGATGAAGA TGAAGAGGAA GAAGAGGAGG
 421 AAGAAGAGGA ACAACAAACA GCAGCAACAG TGACAGTAGA AAGTGATTGG GATCTCTCAC
 481 TAGAGAGGGG GGAGAATTGG GTGTAGTAAC TTATTTGAGC AATAAAAATA CAACTGAATT
 541 TTAATAAA

编号: C032

长度: 812 bp

碱基对组成:

242 A 187 C 172 G 211 T

1 CTCTGTGGTT TCACGAGGTT GTCATCACCA AAGGTAACCT TTTTTTTTGT CCTCGCCGAC
 61 AAAACGACAT CTTAATAACC AAGCAACGTT CGATAAAGAA AAAAACTCGT CATGGATCTT
 121 TCTTTTCACTC TTTTCGGTCGT GTCGGCCATC CTCGCCATCA CTGCTGTGAT TGCTGTATTT
 181 ATTGTGATTT TTAGGTATCA CAACACTGTG ACCAAGACCA TCGAAACCCA CACAGACAAT
 241 ATCGAGACAA ACATGGATGA AAACCTCCGC ATTCCTGTGA CTGCTGAGGT TGGATCAGGC
 301 TACTTCAAGA TGACTGATGT GTCCCTTTGAC AGCGACACCT TGGGCAAAAT CAAGATCCCG
 361 AATGGAAAGT CTGATGCACA GATGAAGGAA GAAGATGCGG ATCTTGTCAT CACTCCCGTG
 421 GAGGGCCGAG CACTCGAAGT GACTGTGGGG CAGAATCTCA CCTTTGAGGG AACATTCAAG
 481 GTGTGGAACA ACACATCAAG AAAGATCAAC ATCACTGGTA TGCAGATGGT GCCAAAGATT
 541 AACCACATCAA AGGCCTTTGT CGGTAGCTCC AACACCTCCT CCTTCACCCC CGTCTCTATT
 601 GATGAGGATG AAGTTGGCAG CTTTGTGTGT GGTACCACCT TTGGCGCACC AATTGCAGCT
 661 ACCGCCGGTG GAAATCTTTT CGACATGTAG GTGCACGTCA CCTACTCTGG CACTGAGACC
 721 GAGTAAATAA ATCGTGCTTT TTTATATAGA TAGGGAATTT TAATATTACA ACAATAAGAA
 781 AATAAAACAA TTGAGGAAAT TTAATAAAAA AA

52

碱基对组成: C033 长度: 625 bp
 252 A 100 C 139 G 134 T

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1  AAGTAAAAAT GGAACAAGAA GAACTGGTAG AGGACTCGTC AAGTAACAAG CGCCCCAGAA
61 TTAAGGAAGA GAAGGAGGAA GAACACAAAG AAACACATCA CCTCTCCCTC CCATGTAAAG
121 AAGAAGAAGA CGATGGTGAA GAAGAGGAAT ATGAGGAAGA GGAGGATGAG GAAGAATATG
181 AAGACAGAGT GGACGACGAC ACTGCAGAGA AAATGGAAAA TCTTTTGGTG CAACTGGACA
241 ATACTACCAA AAACATCAAA CTGAAAAACC CCCTAAGGGA ACATGACATG GCAGTTTCAC
301 ACTATGAGCA TGAATTTGAG GTACAAAATA CTGTCAATTT TAGTTTTGGA GTACTATCTG
361 ATATTGGGTT CCTGATCAAC CGTGAAGCCG TTTCTAGGTG GGGTAATACA CCCCACCAA
421 AAGAGTTTGG CGACATGGAG ATTGGATCTC TTACAGTTAA CCAGATGCTC CACAAGTGTG
481 ATAATTTTGT ACAGGCTGTA GTACAGAAAG TGAAGGAAGA TATAACCCCT TCTATTGAAG
541 TTACAATAGA TAGTTTGATT GATGATCCTT GTTGGTAAAA AACAAATAAA ATATACCTAA
601 AAATTAAAAA AAAAAAAAAA AAAAA
  
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编号: C034 长度: 476 bp
 147 A 94 C 107 G 128 T

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1  ATGATAAGAG TTTCTGGTCC TCTTTTCGACA AGTCTGTGAA GCCTTATTGT GAGAGCAAGA
61 AGAGTGTCTCT TATTAATGCT CTATGTGAAG ATAATGTGAC TGCCAAGGTA TACGCTACTG
121 TCCATACACT GGCTATTCCA TTCTGTGAAT CTATGCCCCAT TAACCACATT AATAACACTA
181 CTCCTTATGG AAGCTACAAG ACCTTCAGAA TTAGTTTGCC AGGGAACTTT TCTGGGCAAC
241 ATAACGACAT CAACAACAAT TGGAGATCTG ACATGTACAC TAAGATGGTT GAAAATCTTC
301 TAAAGAGGGA AGTTGTTGAG AACAAGACAC ACAGCCGCAG ATACGTTTCG AACCTTATTG
361 TTGACGGAGG CGTGGGAGAA AATAGTGGCA ACTACTTGAA GGTGCACGAG AATAATGAGG
421 ATATTTTTTG AAGCATTGAA GCGAATTCAA TGTCTGCCAA GACTGCTGCT GCCGCC
  
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编号: C035 长度: 962 bp
 360 A 156 C 187 G 259 T

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1  TTCGTCTTCT GAAACTCCTA AGACTTCCAC CGATACTGGG GAAGAAAGGA TTAAAGACAT
61 TGTAATGCTCT CTAGATAATA ATGGCGAGTG GTTGTCTTCC TATATTGATC CGATTATCAA
121 TAATCACATC TCACGAAAAA CCGCAGAAAC TGTCCAAAAA ATCAACCAAG AAGTTGATGA
181 ACGGTACGAT AGAAAAATAG CCGACAAAAT CAACGAAATA AAATCATCCA TCTTTACAAG
241 TGCTCAGACT ATGTATGACC AATATGCAAT AGACACATTT CAAGAAGGAA AAGGAGCCAA
301 CGGGACTGGA CCAGTCATGG GGCCAGTGAA CACGGTTATC GATACAACCT TAAATAAAAT
361 GAGGGGAAAT ATGCTCGAAT ACGCTGAAGA TATGTGGGAC GGAGATGACT GGAACGATT
421 TTCCAGTTCT ATGACAACGC TTGAATTTGA TCTAAGTTAC TCTGATTTAA CTATGATGCG
481 TGGTTCTGAC GGGTATTTTG CATTCCCTTT CCGTGGAACA AAAAAGATAA AGATGGACGG
541 TTCAAGAAAG AAAGAAGACC CAATTAATTG TATCATTTC AATACATATC CAACAAAGT
601 AGGGGATGAG TGGGAAGAGG GTAAAGAACG TGAAGTGAAT TTTAACCTAG AAAGAGTAGA
661 CGACTATGAA AGAGATATCC ATGTTTCAAT TTTGTGCATG TTACATGCAC AACTTGATAA
721 TTTCGAACAA GCATTAGGAG AAAATGCAAA CTCTTTTAT TTTAAAAAGG GGCAAAGAGT
781 CATGTTCTTA CCCAAGAAAT CTAAACTGTT CAATAGACCT ACTGTAGAAG ATTCTGATAT
841 GTTTTCTATA ATATCCAC CTGCATCTGA CCAAGATTTT GCAGATGATA TTTATTATCG
901 AATAATTGTA ACATGTTTCAT AATAAAATTT GTTGAAATAA AATACAGTAA TACAAAAAAA
961 AA
  
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编号: C036 长度: 335 bp
 127 A 70 C 68 G 70 T

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1  CGAGAACAAA AGATTGTTGT CTAGGAACAA AGAAACATTA AAAATGGTTG CCCGAAGCTC
61 CAAGACCAAA TCCCGCCGTG GAAGCAAGAA GAGGTCCACC ACTGCTGGAC GCATCTCCAA
121 GCGGAGGAGC CCATCAATGA AGAAGCGTGC AGAAAGAAG AGCTCCACTG TCCGTCGCCC
181 TTCCTCAAAG AGCGGAAAGA AGTCTGGAGC CCGCAAGTCA AGGCGTTAAT TCTTCCCTGT
241 ACAACAATA TGTTATTTAA TTGATTTTTT TTCTTCTGAA TAATTGGAAA TAATAAACA
301 TCCATTGAAA CTAAAAAAA AAAAAAAAAA AAAAA
  
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编号: C037 长度: 225 bp
 78 A 52 C 43 G 52 T

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1  GGAGCTCTGT CATTTCTGGT GCAATCTGAC ATTGGCTCGA CCCAGCGGTC CACCCTCCAA
61 ACTTGACATC AGACCGACCC AGCGGTCCAC CCTCTAAACT CGAGCGACCC AGAAAAATTT
121 TTGAAAAGTT TTTGAGATGG AGGAAGAGTA AAATTCCCTA GTGTAAACAG TACCAAGAAG
  
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181 ACCAATAAAT TTAGTGGTAA TAAACTACA CATATGATTA AAAAA

该病毒能感染目前养殖的所有对虾，引起对虾急性死亡，死亡率达90—100%，因此此序列测定是了解该病毒感染机理、复制增殖机制及采取防治对策的必要前提。

以下对本发明的具体思路及方法做详细描述：

一、 构建WSBV基因组DNA文库：

（一） “鸟枪法” 文库的建立

1. DNA片段超声打碎：

取5微克纯化的WSBV DNA溶于200微升重蒸水中，用超声波仪(Sonics & Materials Inc.)打碎。超声波仪的设置：振幅：20；超声时间为5秒。

2. 末端修复补平：

取上述超声后的DNA溶液(200微升)，加10单位大豆核酸酶(GIBCO BRL)，置30℃水浴中反应15分钟。加入等容积酚/氯仿(1:1)，振荡1分钟，在4℃下，以14,000rpm离心10分钟。取上层溶液，加入1/10容积1摩尔/升氯化钠及500微升95%乙醇，在-20℃环境中放置1小时后，于4℃下，以14,000rpm离心30分钟。弃上清，沉淀物在室温下干燥5分钟后加入25微升pH 8.0的TE缓冲液溶解。测定该溶液中DNA的浓度。

3. 回收DNA：

在1xTAE缓冲液中配制0.9%低熔点琼脂糖胶(LMP, Seaplaque GTG)。取15微升上述DNA溶液进行电泳分离，电压为56V，电泳时间40分钟。切下长度为0.8-2kb之间的DNA胶带，用GENECLEAN试剂盒(BIO 101 Inc.)回收DNA，测定该DNA的浓度。

4. 连接：

取3微升上述DNA溶液(约100纳克)加入1微升连接缓冲液(GIBCO BRL)，0.5微升pUC18/SmaI/BAP(50纳克/微升，Pharmacia BioTech)以及0.5微升T4 DNA连接酶(1单位/微升，GIBCO BRL)，总容量为5微升。置14℃水浴中，反应过夜(超过16小时)。

5. 转化：

在冰浴中将1微升上述连接后的DNA溶液加入100微升DH5α(GIBCO BRL)化学感受态细胞，于42℃水浴中加热45秒后立即置于冰浴中。加入600微升SOC培养液(GIBCO BRL)，于摇床中以225rpm的摇速，培养1小时，分别取100微升涂于六块琼脂平板上，37℃培养过夜。有WSBV DNA 插入的克隆显白斑，无插入的克隆则为蓝斑。

（二） Sau3A1部分酶解法构建WSBV 基因组文库

1. WSBV毒基因组DNA不完全酶切：

- 1) 缓慢吸取50微升（浓度为0.1微克/微升）WSBV基因组DNA至1.5毫升容量的离心管中；
- 2) 加入10xSau3A1缓冲液50微升；
- 3) 再加无菌重蒸水400微升，轻轻混匀；
- 4) 最后加入1微升Sau3A1（浓度为10单位/微升）；
- 5) 混匀后在37℃水浴中放置10分钟，加入500微升异丙醇并混匀，在室温下放置30分钟；
- 6) 用台式离心机以14,000rpm离心5分钟，去上清液；
- 7) 用乙醇清洗两次沉淀，吸干，加入20微升无菌重蒸水溶解病毒DNA片断。

2. WSBV基因组DNA片断电泳回收并纯化：

- 1) 配制0.5%琼脂糖凝胶（1xTAE溶解），将胶泡入含0.5微克/毫升EB的1xTAE中30分钟后放入电泳槽；
- 2) 在20微升病毒DNA片断样品中加入2微升6x电泳上样缓冲液，混匀，加入胶孔中；
- 3) 在旁侧胶孔内加入10微升（浓度为50纳克/微升）λ核酸标准分子量标准品；
- 4) 电泳缓冲液为1xTAE，电压为2伏特/厘米，在电泳时不时用手提紫外灯(306nm)监视电泳情况；
- 5) 当DNA片断达适当分离程度时，在紫外灯下对照核酸分子量标准，切下5—10kb DNA片断所在的琼脂糖凝胶带，置1.5毫升离心管中；
- 6) 称重，加入3倍胶重量的6M 碘化钾，置55℃水浴5分钟至胶完全溶解；
- 7) 加入5微升玻璃粉浆液，冰浴30分钟，其间摇动数次；
- 8) 以10,000rpm离心10秒种，弃上清，加入400微升洗涤液，充分悬浮玻璃粉；
- 9) 以10,000rpm离心10秒种，弃上清，重复洗涤1次；
- 10) 吸干液体并干燥，加入20微升无菌重蒸水，振荡玻璃粉成浆液；
- 11) 置水浴中5分钟，以14,000rpm离心3分钟；
- 12) 将上清(含纯化的病毒DNA片断)转移至无菌的0.5毫升离心管中，置-20℃备用。

3. 载体的酶切反应、去磷酸化和纯化：

- 1) 在0.5毫升离心管中加入2微克载体（pBluescript），2微升10xBamH1缓冲液，无菌重蒸水加至19微升，然后加入1微升的BamH1（浓度为10单位/微升），在37℃水浴中反应2小时；
- 2) 加入20微升异丙醇混匀，在室温放置30分钟，用台式离心机以14,000rpm离心5分钟，去上清液；
- 3) 用乙醇两次清洗沉淀物，吸干并干燥后加入17微升无菌重蒸水溶解沉淀物；
- 4) 加入2微升的10xCIP缓冲液，1微升CIP（1单位/微升），置37℃水浴中反应30分钟；
- 5) 加入2微升3M醋酸钠（pH5.2），20微升异丙醇，混匀，于室温下放置30分钟；
- 6) 用台式离心机以14,000rpm离心5分钟，去上清液，以70%乙醇两次清洗沉淀，吸

干并干燥后加入20微升无菌重蒸水溶解沉淀物;

- 7) 与方法2步骤一样, 通过电泳和玻璃粉纯化得到去磷酸化的BamH1酶切载体, 最后用无菌重蒸水溶解 (浓度为25纳克/微升)。

4. WSBV基因组DNA片断连接和转化反应:

- 1) 在0.5毫升离心管中分别加入2微升去磷酸化BamH1酶切载体, 5微升Sau3A1不完全酶切纯化的WSBV基因组DNA片断, 2微升T4 DNA连接酶缓冲液及1微升 T4 DNA连接酶 (1单位/微升), 混匀, 在16℃进行连接反应20小时;
- 2) 迅速融化200微升*E. coli* XL-Blue化学感受态细胞, 加入上述连接反应产物, 在室温下放置30分钟;
- 3) 加入800微升LB液体培养基, 于37℃摇床上低速摇动1小时;
- 4) 用台式离心机以4,000rpm离心3分钟, 吸取大部分上清液 (留下约200微升), 重悬沉淀菌;
- 5) 涂布含Amp 100微克/毫升的LB培养基板 (预先涂布50微升/ 50mM IPTG, 50微升 X-gal), 于37℃培养15小时后出现蓝、白菌落 (蓝色表示无DNA片断插入, 白色表示有DNA片断插入)。

5. 质粒提取:

- 1) 挑取白色单菌落至5毫升LB液体培养基 (含100微克/毫升 Amp), 在37℃(200转/分钟) 振荡培养过夜;
- 2) 将菌液倒入1.5毫升离心管, 以10,000rpm离心30秒, 去上清液, 重复离心2次后留下菌体;
- 3) 加入150微升溶液I, 充分悬浮菌体;
- 4) 加入300微升溶液II, 轻轻翻转待菌液裂解至清亮;
- 5) 加入225微升溶液III, 温和振荡, 以14,000rpm离心3分钟;
- 6) 用牙签挑去沉淀, 加入500微升异丙醇, 以14,000rpm离心3分钟;
- 7) 去上清液, 吸干;
- 8) 加入50微升TE溶解沉淀物;
- 9) 加入50微升8M氯化锂, 以14,000rpm离心3分钟;
- 10) 转移上清液至新的1.5毫升离心管, 加入100微升异丙醇, 以14,000rpm离心3分钟, 用70%乙醇清洗两次, 吸干;
- 11) 沉淀物用40微升TE溶解, 加入1微升 RNaseA (浓度为10毫克/毫升), 置37℃反应60分钟;
- 12) 加入200微升硅藻土, 混匀, 在4℃下放置1小时;
- 13) 把DNA/硅藻土混合液转移到微型柱中, 放到套管中 (1.5毫升去盖离心管);
- 14) 以5,000rpm离心, 去溶液;
- 15) 加入200微升洗液, 以5,000rpm离心, 重复2次;

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- 16) 加入200微升50%乙醇, 离心速度从5,000rpm逐渐增大至10,000rpm, 甩干;
- 17) 加入适量预热至70℃的重蒸水, 离心速度从2,000rpm逐渐增大至15,000rpm, 离心至新的1.5毫升离心管中收集样品, -20℃冰箱保存备用。

二. 大规模DNA测序

I. PCR反应:

1. 配制PCR反应液(25微升/反应孔), 内容如下:

2.5 微升10倍 GeneAmp II 缓冲液(PE Biosystems), 0.2 微升dNTPs(25毫摩尔, Amersham), 0.125 微升M13正向PCR引物(40微摩尔), 0.125 微升M13反向PCR引物(40微摩尔), 1.5 微升氯化镁(25毫摩尔, PE Biosystems), 0.5 微升Taq Gold (5单位/微升, PE Biosystems)和20.05 微升重蒸水, 总容量为25 微升。

挑取单个白斑克隆置于96孔PCR反应板中(每个反应孔中均预先加入25微升上述PCR反应液), 混匀。分别取1微升制成甘油保存液, 保存于-85℃超低温冰箱中备用。

2. PE 9700型PCR仪中进行PCR反应的条件:

95℃ 12分钟1个循环; 95℃15秒, 58℃20秒及72℃2分钟, 重复30个循环; 然后在4℃下保持到停机取出样品。

3. 琼脂糖胶电泳鉴定:

取5微升PCR产物加入2微升3倍溴酚蓝进行电泳分离, 电压200伏特, 电泳时间30分钟, 电泳毕拍照存档。

4. 纯化PCR产物:

取8微升PCR产物, 加入0.30微升虾碱性磷酸酶(1单位/微升), 0.15微升Exonuclease I (核酸外切酶I, 10单位/微升)和1.55微升重蒸水(总容量为10 微升), 放置在37℃下反应 5分钟, 然后于℃反应 15分钟。

II. 测序反应:

1. 预配测序反应液如下:

1微升“BigDye Terminator” 混合液 (PE Biosystems试剂盒), 1微升M13 测序引物 (3.2微摩尔), 2微升纯化的PCR产物和1微升重蒸水, 总容量为5微升。

2. PE 9700型PCR仪中进行反应的条件:

96℃ 30秒、50℃15秒及60℃ 4分钟, 重复25个循环; 然后在4℃下保持到停机取出样品。

3. 纯化:

在各反应孔中分别加入25微升乙醇/醋酸钠沉淀液, 在4℃下以4,000rpm离心30分钟, 弃上清。各孔加入50微升70%乙醇, 在4℃下以4,000rpm离心10分钟。弃上清后, 在室温下干燥5分钟。

III. 测序:

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1. 配胶:

以每块胶50毫升的量, 预先配制5.25%聚丙烯酰胺凝胶, 灌入377测序仪配套玻璃板中, 在室温下放置2小时后使用。

2. 装配胶板和检查:

用去离子水仔细清洗玻璃板, 在室温下晾干后, 插入配套的鲨齿梳, 装配于377型测序仪上, 进行扫描检查, 4色扫描条带必须水平, 如有尖锐的峰形, 须重新清洗玻璃板。

3. 预电泳:

在377型测序仪上装配好上、下电泳槽, 灌入约1.5升1xTBE缓冲液, 进行半小时预电泳。

5. 样品准备:

于上述纯化后的测序反应样品中, 各加入5微升样品缓冲液(PE Biosystems), 在72℃下加热2分钟后立即置于冰浴中, 待上样。

6. 电泳:

将约1.5微升的样品加入梳齿孔中, 先上样于奇数梳齿孔道, 电泳3分钟后, 再上样于偶数梳齿孔道。电泳7小时。仪器自动收集数据。

7. 分析:

用PE公司的分析软件, 分析所收集之数据。将数据传输到UNIX系统中储存。

三. 序列分析:

I. 序列拼接:

将所得的序列(共5,795个)用UNIX系统中的InnerPeace软件拼接(该软件是在华盛顿大学开发的Phred, Phrap 及Consed的基础上设计而成)。

II. 序列的校正及最后完成:

1. 对模糊序列, 找出相对应的克隆, 重新对其PCR产物进行测序。
2. 对重复序列, 有可能导致拼接错误, 则设计引物, 在原来PCR产物或重新制备的质粒DNA上进行“步行法”测序, 即一步一步地设计引物, 向前推进测序。
3. 对序列间隙, 即有一克隆连接两个片段, 则直接将该克隆序列测通, 即可填补该间隙。
4. 对物理间隙, 通过在片段间设计引物进行PCR或长片段PCR扩增, 来确定及连接该间隙, 再用引物“步行法”将PCR产物测通。
5. 对无法用PCR方法来填补的物理间隙, 则直接在WSBV基因组DNA上进行“步行法”测序。

四、WSBV cDNA文库的构建

I. 方法

1. Poly(A)-mRNA 的提纯:

- 1) 取出试剂盒中GTC抽提缓冲液、生物素标记的Oligo(dT)探针、不含核苷酸酶的重蒸水和0.5xSSC, 恢复至室温; 将稀释缓冲液预热至70℃;
- 2) 取20毫升容量玻璃管, 加入4毫升抽提缓冲液和104微升 β -巯基乙醇;
- 3) 尽快取病虾之消化腺, 加入该玻璃管中制成匀浆;
- 4) 以8,000rpm离心10分钟, 取上清;
- 5) 分别将8毫升稀释缓冲液(70℃预热)和164微升 β -巯基乙醇加入匀浆管中, 翻转几次混匀;
- 6) 加入5微升探针, 混匀后在70℃下孵育5分钟;
- 7) 转移至15毫升无菌试管中, 在室温下以40,000rpm离心10分钟;
- 8) 同时将SA-PMPs悬浮, 取5毫升置于50毫升带盖无菌管中, 放置在磁性平台上, 倒去液体; 加入同体积0.5xSSC, 悬浮, 弃去液体, 重复二次后加入同体积0.5xSSC, 悬浮;
- 9) 离心后取上清, 转入SA-PMPs管中, 翻转混匀;
- 10) 在室温下放置2分钟, 置于磁性平台上至溶液澄清, 弃去液体;
- 11) 加入2毫升0.5xSSC, 轻扣管壁使之悬浮, 转移到2毫升试管中, 放置在磁性平台上, 小心吸去液体, 重复一次, 尽量吸去液体;
- 12) 加入1毫升不含核苷酸酶的重蒸水, 轻扣悬浮, 放置于磁性平台上, 小心吸去SSC液体, 重复, 直至提取物体积到达1微升;
- 13) SA-PMPs以不含核苷酸酶的重蒸水悬浮, 留样;
- 14) 加入0.1倍体积的3M NaAC 和1倍体积的异丙醇, 在-20℃下放置过夜;
- 15) 以40,000rpm离心10分钟, 沉淀物用70%乙醇洗涤, 离心后吸去残液;
- 16) 以不含核苷酸酶的重蒸水悬浮成0.5-1.0微升, 置于-70℃冻存。

2. mRNA逆转录成cDNA:

1). 第一链合成:

- a) 在1.5毫升离心管中加入2微升Not I 接头引物, 随后加入2微升mRNA(2微克/微升)和5微升 DEPC处理水;
- b) 混合均匀, 在70℃孵育10分钟后, 置冰上迅速冷却;
- c) 稍作离心, 加入4微升第一链缓冲液, 2微升 0.1M DTT, 1微升 10mM dNTP 混合液;
- d) 轻轻振荡以使混匀, 稍作离心, 置37℃孵育5分钟以平衡温度;
- e) 加入4微升SuperScript II RT (1微克/微升), 混匀后置37℃孵育1小时;
- f) 转移至冰上以终止反应。

2). 第二链合成:

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- a) 向该管中加入95微升 DEPC处理水、30微升第二链缓冲液、3微升 10mM dNTP 混合液、1微升大肠杆菌DNA连接酶 (10单位/微升)、4微升大肠杆菌DNA多聚酶I (10单位/微升)和1微升大肠杆菌RNase H (2单位/微升) ;
 - b) 轻轻振荡以使混匀, 置16℃2小时;
 - c) 加入2微升T4 DNA多聚酶, 在16℃继续放置5分钟;
 - d) 转移至冰上并加入10微升0.5M EDTA;
 - e) 加入150μl酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 在室温下以14,000rpm离心2分钟以分相, 小心取出上相140微升溶液转移至新的1.5毫升离心管中;
 - f) 加入70微升7.5M醋酸铵和0.5毫升无水乙醇 (-20℃预冷), 混匀后立即在室温下以14,000rpm离心20分钟;
 - g) 去上清, 沉淀物用0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 以14,000rpm离心2分钟, 去上清;
 - h) 置37℃干燥10分钟以使残余乙醇挥发。
- 3). 连接Sal I接头:
- a) 向该管内加入25微升 DEPC处理水、10微升T4 DNA连接酶缓冲液、10微升Sal I 接头和5微升T4 DNA连接酶;
 - b) 轻轻混匀, 置16℃16小时;
 - c) 加入50微升酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 室温下用14,000g速度离心5分钟以分相, 小心取出上相45微升转移至新的1.5毫升离心管;
 - d) 加入4.5微升3M醋酸钠和90微升无水乙醇 (-20℃预冷), 混匀后立即在室温下, 以14,000g速度离心20分钟;
 - e) 去上清, 沉淀物以0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 用14,000rpm离心2分钟, 去上清;
 - f) 置37℃干燥10分钟以使残余乙醇挥发。
- 4). Not I消化:
- a) 向该管内加入41微升DEPC处理水、5微升缓冲液和4微升Not I;
 - b) 轻轻混匀, 37℃孵育2小时;
 - c) 加入50微升酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 室温下用14,000rpm离心5分钟以分相, 小心取出上相45微升转移至新的1.5毫升离心管;
 - d) 加入4.5微升3M醋酸钠和90微升无水乙醇 (-20℃预冷), 混匀后立即在室温下用14,000rpm离心20分钟;
 - e) 去上清, 沉淀物以0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 用14,000rpm离心2分钟, 去上清;
 - f) 置37℃干燥10分钟以使残余乙醇挥发。

5). 大片段分离:

- a) 向该管加入20微升TE缓冲液以溶解cDNA;
- b) 用1%琼脂糖胶电泳分离cDNA, 以分子量标准显示500bp电泳带, 电压为60伏特;
- c) 取1.5毫升离心管称重; 电泳15分钟后割取大于500bp的cDNA条带, 转移置该管, 称重, 计算胶的重量;
- d) 加入3倍体积的6M碘化钾, 55℃水浴加热15分钟, 待胶溶解;
- e) 加入5微升玻璃粉浆液, 混匀, 在4℃下放置1小时, 其间经常振摇;
- f) 在室温下以14,000rpm离心30秒钟, 吸去液体;
- g) 沉淀物用1毫升清洗溶液悬起, 在室温下以14,000rpm离心30秒钟, 吸去液体;
- h) 沉淀物用1毫升80%的乙醇悬起, 在室温下以14,000rpm离心5分钟, 吸去液体, 室温晾干10分钟;
- i) 加入10微升重蒸水, 在55℃下孵育5分钟;
- j) 在室温下以14,000rpm离心2分钟, 吸取液体, 转移置1.5毫升离心管;
- k) 在硅胶管中再加入5微升重蒸水, 在室温下以14,000rpm离心2分钟, 吸取液体, 与上述吸取液合并, 置-20℃保存。

3. cDNA插入pSPORT载体:

- 1) 在1.5毫升离心管中加入5微升cDNA、2微升 pSPORT、Not I-Sal I-Cut (50微克/微升)、4微升 T4 DNA连接酶缓冲液和8微升重蒸水;
- 2) 混匀后加入1微升4 DNA连接酶, 混匀;
- 3) 于16℃水浴孵育过夜;
- 4) 加入2微升3M醋酸钠和40微升无水乙醇 (-20℃预冷), 混匀后立即在室温下以14,000rpm离心20分钟;
- 5) 去上清, 沉淀物用0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 以14,000rpm离心2分钟, 去上清并重复一次;
- 6) 置37℃干燥10分钟以使残余乙醇挥发, 用5微升重蒸水溶解, 待电转化用。

4. 感受态细胞的制备:

- 1) 在40毫升LB液体培养基上接种DH10α, 37℃培养至OD₆₀₀为0.6-1.0;
- 2) 置冰上40分钟;
- 3) 转移至灭菌的45毫升离心管中, 以4,000rpm离心10分钟, 去上清;
- 4) 用40毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 5) 用20毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 6) 用1毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 7) 以200微升灭菌的10%甘油 (4℃预冷) 悬浮细胞, 按每管100微升的量分装, 置冰上待用。

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5. 电转化方法:

- 1) 在100微升感受态细胞中, 加入2微升连接产物, 混匀, 冰浴1分钟;
- 2) 转移到经预冷的0.2厘米电穿孔容器;
- 3) 用BTX600C电转化仪电击: 脉冲时间约5-6毫秒, 场强为12,500伏特/厘米, 设定参数为: 2,500伏特, R5 (129欧姆);
- 4) 加入1毫升LB, 转移到1.5毫升离心管中, 在37°C下轻摇40分钟以使细胞复苏;
- 5) 取200微升涂布LB琼脂糖平板 (含Amp), 在37°C下培养过夜。

6. 地高辛标记DNA探针:

- 1) 取3微克纯化好的DNA置于1.5毫升离心管中, 置100°C水浴10分钟变性DNA;
- 2) 随即加入4微升六核苷酸混合液, 4微升dNTP混合液, 38微升重蒸水和2微升Klenow酶 (2单位/微升);
- 3) 混匀后置于37°C水浴中孵育20小时, 其间补加1微升Klenow酶, 并稍作离心;
- 4) 加入2微升EDTA (0.2M, pH8.0) 以终止反应;
- 5) 加入2.5微升4M氯化锂和75微升的乙醇 (-20°C预冷), 于-20°C放置2小时;
- 6) 12,000g离心10分钟, 去上清, 沉淀用70% 乙醇洗涤两次, 吸去液体, 室温晾干;
- 7) 以50微升TE缓冲液溶解探针, 置于-20°C保存。

7. 原位杂交筛选阳性克隆:

1). 菌落裂解及DNA变性与固定:

- a) 将保种甘油菌稀释成合适浓度后涂布在LB (含Amp) 平板上, 在37°C下培养过夜;
- b) 当菌落大小在1-2毫米时, 取出平板, 于4°C放置1小时;
- c) 取灭菌的尼龙膜, 小心覆盖于平板上, 放置5分钟后将尼龙膜揭下, 室温晾干;
- d) 取三个培养皿, 各放入一张滤纸, 然后分别加入杂交变性液、中和液、洗涤液, 使滤纸浸透;
- e) 将尼龙膜菌落面朝上放于浸透变性液的滤纸上, 变性5分钟;
- f) 将尼龙膜转到浸透中和液的滤纸上, 中和5分钟;
- g) 将尼龙膜转到浸透洗涤液的滤纸上, 洗涤5分钟;
- h) 将尼龙膜取出后放于滤纸上, 室温晾干;
- i) 将尼龙膜放于紫外交联仪上, 用254纳米波长照射3分钟以固定DNA。

2). 与地高辛标记的探针杂交:

- a) 将尼龙膜转入杂交袋, 加入20毫升经65°C预热的预杂交液, 密封后在65°C水浴中孵育1小时;
- b) 取100纳克地高辛标记的探针, 在100°C水浴中煮2分钟后加入3毫升经65°C预热的预杂交液配成杂交液;
- c) 倒出杂交袋中的预杂交液, 加入杂交液, 密封后在65°C水浴中孵育至少6小时,

其间经常摇动以使杂交液能均匀覆盖尼龙膜;

- d) 取出尼龙膜, 以50毫升的2xSSC和0.1%SDS洗液洗涤5分钟, 重复一次;
- e) 用50毫升的0.1倍SSC和0.1%SDS洗液在68℃下洗涤15分钟, 重复一次。

4). 显色:

- a) 用20毫升杂交检测缓冲液1洗涤尼龙膜1分钟;
- b) 换用100毫升杂交检测缓冲液2孵育尼龙膜30分钟;
- c) 加入4微升抗地高辛-AP复合物于20毫升杂交检测缓冲液2中孵育尼龙膜30分钟;
- d) 用100毫升的杂交检测缓冲液1洗涤尼龙膜15分钟, 重复一次;
- e) 用20毫升的杂交检测缓冲液3平衡尼龙膜2分钟;
- f) 在10毫升的杂交检测缓冲液3中加入80微升显色液, 在避光条件下显色尼龙膜;
- g) 待显色到适当深度时, 加入100毫升的TE缓冲液洗涤尼龙膜10分钟, 重复一次, 取出稍晾干后, 观察结果或照相; 尼龙膜可装入透明塑料袋置于-20℃保存。

8. 质粒抽提方法:

- 1) 挑取单菌落至5毫升LB液体培养基(Amp 100微克/毫升), 在37℃下振荡过夜;
- 2) 将菌液倒至1.5毫升离心管中, 以14,000rpm离心30秒钟, 重复一次, 留下菌体;
- 3) 加入200微升溶液 I, 充分悬浮;
- 4) 加入400微升溶液 II, 轻轻翻转, 冰浴5分钟使细菌裂解至清亮;
- 5) 加入300微升溶液 III, 温和振荡, 冰浴5分钟后, 以14,000rpm离心5分钟;
- 6) 转移上清至新的1.5毫升离心管中, 加入等体积预冷的异丙醇;
- 7) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 8) 沉淀物用200微升TE溶解, 加入等体积 8M氯化锂, 以14,000rpm离心3分钟;
- 9) 转移上清至新的1.5毫升离心管中, 加入等体积预冷的异丙醇;
- 10) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 11) 沉淀物以100微升TE溶解, 加入1微升RNase A, 在37℃水浴中反应30分钟;
- 12) 加入10微升3M醋酸钠和200微升乙醇(-20℃预冷);
- 13) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 14) 以40微升TE溶解质粒, 加入200微升硅藻土, 混匀, 在4℃下放置1小时;
- 15) 把DNA/硅藻土转到魔力柱中, 以5,000rpm离心, 使其入柱;
- 16) 加入200微升洗液, 以5,000rpm离心, 重复3次;
- 17) 加入70%乙醇, 离心速度从5,000rpm逐渐增大至15,000rpm, 甩干;
- 18) 加入适量经70℃预热的重蒸水, 离心速度从2,000rpm逐渐增大至15,000rpm, 离心液由新的离心管收集;
- 19) 取1微升质粒稀释至100微升, 测定OD₂₆₀及OD₂₈₀, 其余置-20℃保存。

附录:

I. 材料

1. 工具酶:

Sau3A1为Biolab产品; BamH1为GIBCO BRL产品; T4 DNA连接酶为GIBCO BRL产品; 碱性磷酸酶 (CIP) 为Boehringer Mannheim产品; RNase A为Sigma产品。

2. 商品试剂盒:

- 2) 地高辛标记杂交试剂盒 (Dig labeling kit) 为Boehringer Mannheim产品;
- 3) Poly(A)-mRNA抽提试剂盒 (PolyATtract System 1000) 为Promega产品;
- 4) cDNA合成及克隆试剂盒 (SUPERScript™ Plasmid System for cDNA Synthesis and Plasmid Cloning) 为GIBCO BRL公司产品;

3. 载体和菌株: pBluescript载体和XL-Blue均为Stratagene产品。

4. 试剂:

dNTP为Boehringer Mannheim产品;

Blocking Reagent为Boehringer Mannheim产品;

琼脂糖 (Agarose) 为Sigma产品;

三羟甲基氨基甲烷 (Tris) 为Sigma产品;

β -巯基乙醇为Sigma产品;

异丙基硫代- β -D-半乳糖苷 (IPTG) 为Sigma产品;

5-溴-4-氯-3-吡啶- β -D-半乳糖苷 (X-gal) 为Sigma产品;

核酸分子量标准为MBI产品;

蛋白胨为Oxoid产品;

酵母浸出膏为Oxoid产品;

5. 引物

M13正向PCR引物: 21mer 5'-CGCTATTACGCCAGCTGGCGA-3'

M13反向PCR引物: 20mer 5'-ATGCAGCTGGCACGACAGGT-3'

M13正向测序引物: 18mer 5'-TATAAAACGACGGCCAGT-3'

M13反向测序引物: 18mer 5'-CAGGAAACAGCTATGACC-3'

II. 常用溶液、培养基的配制:

1. LB培养液:

氯化钠 1.0%

酵母浸出膏 0.5%

蛋白胨 1.0%

琼脂 1.5%

2. LB培养液:

氯化钠 1.0%

酵母浸出膏 0.5%

蛋白胨 1.0%

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3. 乙醇/醋酸钠沉淀液:

2.5微升 3M 醋酸钠

37.5微升 95%乙醇

4. 5.25%聚丙烯酰胺凝胶:

取30毫升GENE-PAGE PLUS 6%及50毫升GENE-PAGE PLUS 4.8%，混匀后，抽气5分钟。取50毫升上述5.25%聚丙烯酰胺凝胶，加入250微升新鲜配制的10% 过硫酸铵及28微升TEMED，混匀后灌胶。

6. TE缓冲液, pH8.0:

Tris-盐酸 (pH8.0) 10 mM

EDTA (pH8.0) 1 mM

7. TAE缓冲液(1x):

Tris-醋酸 40 mM

EDTA 1 mM

7. TBE缓冲液(1x):

Tris-硼酸 90 mM

EDTA 2 mM

8. 琼脂糖凝胶电泳上样缓冲液 (6x)

溴酚蓝 0.25%

蔗糖 40%

9. 溶液 I

葡萄糖 50mM

Tris-盐酸 (pH8.0) 25mM

EDTA (pH8.0) 10mM

10. 溶液II

氢氧化钠 0.2M

SDS 1%

11. 溶液III

醋酸钾 3M

醋酸 11.5%

12. 杂交变性液

氢氧化钠 0.5M

氯化钠 1.5 M

13. 杂交中和液

氯化钠 1.5 M

Tris-盐酸 (pH7.4) 0.5 M

14. 20xSSC贮液 (pH7.0)

氯化钠 17.53%

205

柠檬酸钠 8.82%

15. 2xSSC杂交洗涤液

用20xSSC稀释10倍

16. 5xSSC杂交液: 将以下化学物品配在用20xSSC稀释4倍后的缓冲液中

Blocking Reagent	1% (w/v)
N-lauroylsarcosine Na-Salt	0.1% (w/v)
SDS	0.02% (w/v)

17. 杂交检测缓冲液1:

Tris-盐酸	100mM pH7.5
氯化钠	150mM

18. 杂交检测缓冲液2:

1% Blocking Reagent 溶解于杂交检测缓冲液1

19. 杂交检测缓冲液3:

Tris-盐酸	100mM/pH9.5
氯化钠	100mM
氯化镁	50mM

20. 杂交检测缓冲液4:

Tris-盐酸	10mM/pH8.0
EDTA	1mM

21. 6M碘化钾溶液 (100ml)

碘化钾	90.8g
亚硫酸钠	2g

22. 洗脱液

乙醇	50ml
Tris-盐酸(20mM/pH7.4)/EDTA(1mM)/ 氯化钠(100mM)	50ml

23. 醋酸钠 (3M pH5.2)

醋酸钠	40.81%
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用冰醋酸调节至pH5.2

省略用词一览表:

省略词	英文名称	中文名称
DNA	deoxyribonucleic acid	脱氧核糖核酸
bp	base pair	碱基对
cDNA	complementary DNA	互补脱氧核糖核酸
EST	expressed sequence tag	表达序列标记
kb	kilo base pairs	千碱基对
UNIX	a multiuser, multitasking computer operating system	多用户分时操作系统
rpm	rotor per minute	每分钟转数
Inc.	incorporation	公司
PCR	polymerase chain reaction	聚合酶链反应
M	mol/l	摩尔/升
mM	mmol/l	毫摩尔/升
pH	hydrogen ion exponent	氢离子指数
RNase A	Ribonuclease A	核糖核酸酶A
E.coli	Escherichia coli	大肠杆菌
Amp	ampicillin	氨苄青霉素
w/v	weight/volume	重量/体积
Poly(A)	poly adenylic acid	聚腺苷酸
mRNA	messenger ribonucleic acid	信使核糖核酸
Oligo(dT)	Oligo-deoxythymidine	寡聚脱氧胸苷
OD	optical density	光密度
dNTPs	dATP, dTTP, dGTP, dCTP	四种脱氧核苷酸混合液
Tris	Tris(Hydroxymethyl) Methylglycine	三(羟甲基)氨基甲烷
EDTA	Ethylenediamine tetraacetic acid	乙二胺四乙酸
DEPC	Diethypyrocarbonate	焦碳酸二乙酯
DTT	1, 4-Dithiothreitol	1, 4-二硫代苏糖醇
SDS	Sodium Dedecyl Sulfate	十二烷基硫酸钠
TEMED	N, N, N', N'-tetramethylethyl-enedi amine	N, N, N', N'-四甲基乙二胺
A		脱氧腺嘌呤核苷酸
C		脱氧胞嘧啶核苷酸
G		脱氧鸟嘌呤核苷酸
T		脱氧胸腺嘧啶核苷酸